Staff Report

Sediment Characterization
for the
2001 Sediment Removal Project

February 2002

Santa Clara Valley Water District

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STAFF REPORT

SEDIMENT CHARACTERIZATION
FOR THE
2001 SEDIMENT REMOVAL PROJECT

SANTA CLARA VALLEY WATER DISTRICT

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February 6, 2002

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INTRODUCTION

The Sediment Characterization Report presents analytical results of tests performed on sediments, which were scheduled to be removed in accordance to the 2001 Sediment Removal Project. The purpose of sediment removal is to alleviate local flooding and to meet the requirements of the Federal Emergency Management Agency for flood protection.

In order to effectively manage the removal and disposal of the sediments, it is necessary to characterize the physical and chemical properties of the sediments. Under the 2001 Sediment Removal Project, approximately 90,310 cubic yards of sediment were planned to be removed from 17 creek sites. Table 1 outlines the names of creeks by district zones, locations, and approximate amount of sediment to be removed at each site.

It is anticipated that the large amount of data generated from this Sediment Characterization Plan will provide valuable information regarding the general nature of sediments in Santa Clara County and will reduce the quantity of sampling and analysis which is required for future sediment removal projects.

The only significant deviation from the 2000 Sediment Characterization Plan is the addition of herbicide sampling and site-specific sampling for Flint Debris Basin.

Sediment sampling activities for the 2001 Sediment Removal Project occurred during June 2001.

OBJECTIVES OF SEDIMENT CHARACTERIZATION

Sediment characterization allows the Santa Clara Valley Water District (District) to (1) effectively plan for disposal of sediments, (2) assist with determining the best management practices to implement, and (3) efficiently monitor the water quality impacts from the sediment removal operation. The Sediment Characterization Plan is primarily designed to characterize sediment designated for removal (using continuous core and discrete sediment sampling method). It is not intended to be a full characterization of all the stream sediments.

There are four main reasons for characterizing the sediments, described as follows:

Landfill Acceptance

Landfills require materials to be characterized before they accept them for disposal or reuse at their site.

Alternative Reuse Sites

Alternative reuse sites generally consist of contractors using materials for construction. The contractors request characterization of the materials.

The Regional Water Quality Control Board

The Regional Board has required characterization of the materials to determine if the proposed disposal method is acceptable. The Regional Board must ensure disposal of the material will not pose a threat to the waters of the state.

The Department of Fish and Game

The Department of Fish and Game (DFG) requests the material be characterized to determine if they will adversely impact fish and wildlife. The removal operations may cause sediment to be resuspended and migrate downstream where it may have an impact on aquatic life. The DFG is interested in the toxicity of the sediments to fish and wildlife.

This sediment characterization follows the Santa Clara Valley Sediment Characterization Plan, dated June 2001. The Sediment characterization Plan was created to comply with the following documents/requirements:

- Regional Water Quality Control Board, San Francisco Bay Region Waste Discharge Requirements for the District's Sediment Removal Project aimed primarily at water quality protection.
- Santa Clara Valley Water District and California Department of Fish and Game Memorandum of Understanding for Routine Maintenance Activities in Improved Channels aimed primarily at protection of fish and wildlife.
- Landfill/Reuse-Specific Requirements.

The Sediment Characterization Plan was also designed to (1) provide data for evaluation of the feasibility of long-term disposal, reuse, and recycling opportunities for sediment generated by the District, and (2) provide a basis for the Self-Monitoring Program to determine whether additional water quality constituents should be monitored.

TABLE 1
2001 Sediment Removal Project Sites

Site No.	Creek	Location	Type of Site	Water-shed	Estimated Sediment Volume (cy)	Estimated Quantity (tons)[a]
1	Adobe	At Highway 101, Palo Alto	Concrete	W	1,000	1,500
2	Berryessa	Milpitas Boulevard To Calaveras, Milpitas	Earthen	C	5,900	8,850
3	Berryessa	Cropley to Sierra Creek, San Jose	Earthen/Concrete	C	2,400	3,600
4	Berryessa	U/S and P/S Piedmont, San Jose	Earthen/Concrete	C	1,300	1,950
5	Calabazas	D/S Hwy. 101, Santa Clara/Sunnyvale	Earthen	W	30,000	45,000
6	Calera	U/S UPRR to Milpitas Boulevard, Milpitas	Concrete	C	600	900
7	Calera	U/S Escuela Parkway, Milpitas	Earthen	C	230	345
8	Canoas	Various locations, San Jose	Earthen/Concrete	G	1,900	2,850
9	Coyote	U/S Lower Penitencia Confluence, Milpitas	Earthen	C	150	225
10	Flint Debris Basin	U/S Mt. Pleasant Road, San Jose	Earthen	C	30,000	45,000
11	Guadalupe	U/S Tasman to Montague, San Jose/ Santa Clara	Earthen	G	10,000	15,000
12	Los Coches	D/S Interstate 680 to Dempsey, Milpitas	Earthen/Concrete	C	1,800	2,700
13	Matadero	U/S Highway 101 to Louis, Palo Alto	Earthen/Concrete	W	4,000	6,000
14	Randol	U/S Bret Harte, San Jose	Concrete	G	50	75
15	Ross	U/S Cherry, San Jose	Concrete	G	100	150
16	Rucker	D/S Guibal, Gilroy	Earthen	U/L	30	45
17	Sierra	D/S Mauna Kea, San Jose	Earthen	C	850	1,275

(A)Sediment volume in tons, assuming 1.5 tons/cy

Watersheds: W=Lower Peninsula/West Valley G=Guadalupe C=Coyote U/L=Uvas/Llagas

SAMPLING AND ANALYSIS

SEDIMENT SAMPLING PLAN

All sediment sampling and analysis was conducted in accordance with the District's Sediment Characterization Plan for the 2001 Sediment Removal Project. This plan was based on (1) the District's 2000 Sediment Characterization Plan approved by the Regional Board; (2) the results of the 1998, 1999, and 2000 Sediment Removal Projects and lessons learned meetings; and (3) meetings and discussions with the Regional Board, the DFG, and other interested parties.

In addition to characterizing the sediments based on statistical characterization method, the Sediment Characterization Plan incorporates a biased approach to characterize the areas with the highest potential to have pollutants. This biased sampling involves sediment sampling at potential "hot spot" locations, such as storm water outfalls and runoffs and sediment deposition areas where there is a potential to detect pollutants.

SAMPLE COLLECTION

Samples were collected in June 2001. A total of 128 samples were collected.

Sampling activities performed by Air, Light, and Space Construction were coordinated by Ms. Kate Slama and Mr. Brett Calhoun.

SAMPLING LOCATIONS

The location at which each sample was collected is presented in Table 1. Maps of sampling locations are available from Kate Slama. All sampling locations were selected in accordance with the methodology presented in the 2001 Sediment Characterization Plan. Documentation regarding the selection of sampling locations are contained within the Field Soil Sampling Logs.

Sample locations were determined by Ms. Kate Slama, Mr. Tim Bramer, Mr. Scott Katric, and Mr. Kenn Reiller, and were located by the three watershed field crews.

Each sample location was plotted using the Global Positioning System (GPS) by the sampling team. GPS data is stored electronically and can be retrieved by contacting the District's Land Surveying and Mapping Unit.

SAMPLE ANALYSIS

All samples collected were submitted to Sequoia Analytical. Samples were composited by Sequoia Analytical in accordance with the compositing procedure described in the Sediment Characterization Plan.

All samples were analyzed by Sequoia Analytical, with the exception of the following: toxicity analyses were performed by Pacific EcoRisk; asbestos analyses were performed by R.J. Lee Group, Inc.; and sieve analyses were performed by Environmental Technical Services (ETS).

The analysis performed on each sample, as well as the rationale for selecting each analysis, is presented in the Sediment Characterization Plan.

Sample analysis results are presented in Appendix A.

CHAIN OF CUSTODY PROCEDURES

Standard chain of custody procedures were used throughout the sampling collection procedures as described in the Sediment Characterization Plan. A chain of custody was prepared for all samples. Each individual who had responsibility for the samples was required to sign the chain of custody upon relinquishing the samples to another party. The receiving party taking custody of samples also signed the chain of custody form.

FIELD SOIL SAMPLING LOG

A field soil sampling log was filled out for the samples collected at each location. The log contains the following information: date and time sample was taken, site location, responsible sample collector, sampling methods, sampling location, sampling depth, number of sampling containers, specific site conditions observed at the time of sample collection, analysis requested, and other information that describes the actual sampling event.

ANALYTICAL RESULTS

METALS

Metals are naturally occurring elements, which are present in sediments and soils throughout the Santa Clara Valley. Historic mining activities have increased the concentration of metals in some watersheds. Metals may also be deposited in the stream by non-point source runoff.

Landfills commonly request that soils be analyzed for total concentrations of "Title 26 metals," which include antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc for a total of 17 metals.

Class III landfills may consider both the total and soluble levels of metals; therefore, it is advisable to test soil for both total and soluble levels of metals.

Testing Performed

All samples except the residual sediment samples were tested for total Title 26 metals by EPA Method 6010 and EPA 7000 series test methods.

All samples except the residual sediment samples were tested for soluble Title 26 metals by EPA Method 6010 and 7000 series and standard WET extraction method (citric acid).

Summary of Analytical Results

High and low values of total and soluble metals for continuous core samples are presented in Table 2.

High and low values of total and soluble metals for composite samples are presented in Table 3.

TABLE 2
High and Low Concentration Values of Total and Soluble Metals For Composite Samples

Analyte	**Total Metals** mg/Kg		**Soluble Metals** ug/L	
	High Value	**Low Value**	**High Value**	**Low Value**
Antimony	1.80	1.70	ND	ND
Arsenic	13.00	ND	350.0	ND
Barium	160.00	55.00	12000.0	5000.0
Beryllium	ND	ND	ND	ND
Cadmium	0.80	ND	49.0	ND
Chromium	370.00	27.00	1800.0	68.0
Cobalt	29.00	7.00	1300.0	120.0
Copper	49.00	11.00	1600.0	ND
Lead	58.00	4.60	2500.0	ND
Molybdenum	ND	ND	ND	ND
Nickel	540.00	35.00	6300.0	240.0
Selenium	4.60	ND	ND	ND
Silver	ND	ND	ND	ND
Thallium	13.00	ND	870.0	ND
Vanadium	71.00	27.00	970.0	140.0
Zinc	160.00	33.00	11000.0	870.0

TABLE 3
High and Low Concentration Values of Total and Soluble Metals For Continuous Core Samples

Analyte	**Total Metals** mg/Kg		**Soluble Metals** ug/L	
	High Value	**Low Value**	**High Value**	**Low Value**
Antimony	2.30	ND	ND	ND
Arsenic	13.00	3.70	2000.0	ND
Barium	170.00	52.00	20000.0	4400.0
Beryllium	ND	ND	ND	ND
Cadmium	0.93	ND	52.0	ND
Chromium	100.00	17.00	2300.0	ND
Cobalt	18.00	3.90	750.0	ND
Copper	61.00	7.60	1500.0	ND
Lead	65.00	ND	3300.0	ND
Molybdenum	ND	ND	ND	ND
Nickel	150.00	17.00	5000.0	160.0
Selenium	ND	ND	ND	ND
Silver	ND	ND	ND	ND
Thallium	9.90	ND	1200.0	ND
Vanadium	65.00	23.00	1100.0	ND
Zinc	150.00	33.00	9100.0	800.0

MERCURY—TOTAL MERCURY AND METHYL-MERCURY

As a result of historic mining operations, mercury is a concern due to its presence in some watersheds. Many mercury mines were active up to the 1970's. Past mining operations allowed mining tailings and debris to discharge to some creeks and this has increased mercury levels in sediment and soils in those watersheds.

Testing Performed

All samples collected from Guadalupe Creek, Los Gatos Creek, Alamitos Creek, Coyote Creek, and Randol Creek were analyzed for total mercury by EPA Method 7471.

All samples taken from Guadalupe Creek, Los Gatos Creek, Alamitos Creek, Coyote Creek, and Randol Creek were analyzed for methyl-mercury by EPA Method 1630.

Summary of Analytical Results

For composite samples, results ranged from a high 2.898 ng/g in sample Coyote01 (composite A) to a low of 0.217 ng/g in sample Guadalupe01 (composite ABCD).

For continuous core samples, results ranged from a high 0.795 ng/g in sample GuadalupeCC03 to a low of 0.072 ng/g in sample Guadalupe CC01

ORGANIC COMPOUNDS

Pesticides and Organophosphorous Compounds

Pesticides have been historically used throughout Santa Clara Valley for agricultural purposes. Both pesticides and organophosphorous compounds may have been deposited in the sediments by non-point source runoff.

Testing Performed

All samples except the residual sediment samples were tested for pesticides by EPA Method 8081. All samples from earthen channels/creeks, except the residual sediment samples were tested for organophosphorous compounds by EPA Method 8141.

Summary of Analytical Results

For continuous core sampling, CaleraEscCC01, CanoasCC01, FlintCC04, GuadalupeCC02, and GuadalupeCC03 all resulted in detectable limits of 4,4-DDE. Sample GuadalupeCC02 resulted in detectable limits of 4, 4-DDD and 4,4-DDT, as well. Sample site FlintCC01 resulted in detectable limits for Heptachlor epoxide.

Results are presented in Appendix A.

The following table summarizes sample sites, concentrations, and types of pesticides found at those sites for composite samples:

Site Name	**4,4-DDE** (ug/Kg)	**4,4-DDT** (ug/Kg)
Calabazas02	3.2	0
Calabazas03	4.0	0
Calabazas05	4.1	0
Guadalupe01	16	19
Guadalupe02	6.6	7.7
Guadalupe03	11	0

Polychlorinated Biphenyls and Total Mercury

Testing Performed

All residual sediment samples collected from earthen channels/creeks were tested for PCBs and total mercury by EPA Method 8082 and 7471, respectively, in an attempt to characterize sediments that may be subject to erosion and transport during flows.

Summary of Analytical Results

No PCBs were detected in any sample except in sample site MataderoR01, which resulted in 190 ug/Kg of PCB-1260.

Total mercury tested a high value of 1.7000 ug/Kg at sample site GuadalupeR03 and a low value of 0.0280 ug/Kg at sample site BerryMilR02.

Solvents

Solvents are generated by industrial activities and may be deposited in sediments by non-point source runoff. Solvents are highly volatile, so it is not likely that significant quantities of solvents will be detected since the sediments are open to the atmosphere.

None of the seventeen (17) composite samples from eight creeks analyzed for halogenated volatiles in 1997 revealed presence of halogenated volatiles above detection limits. Furthermore, none of the 54 composite samples from 19 creeks analyzed for halogenated volatiles in 1998 revealed presence of halogenated volatiles above detection limits. This comparison of sediment analyses was discussed at the 1998 Lessons Learned Meeting.

Testing Performed

No testing was performed during the 2001 Sediment Removal Project.

Polynuclear Aromatic Hydrocarbons

PAH is generated by industrial activities and may be deposited in sediments by non-point source runoff.

Testing Performed

All samples except the residual sediment samples were analyzed for PAH by EPA Method 8310.

Summary of Analytical Results

PAHs were detected in all composite sample sites except the following: BerryCrop01, BerryPied01, Calabazas08, CaleraMil01, CaleraEsc01, LosCoches01, Randol01, Rucker01, and Sierra01. See Appendix A for resultant concentrations.

For continuous core samples, the following sites resulted in detectable limits of PAHs: AdobeCC01, CalabazasCC01, CalabazasCC02, CalabazasCC04, CalabazasCC05, GuadalupeCC02, GuadalupeCC03, LosCochesCC02, MataderoCC01, RandolCC01, and SierraCC01.

MOISTURE CONTENT

Sediments in creeks naturally contain moisture; moisture content may fluctuate during the year and is dependant on creek flows, groundwater elevation, and other local conditions. The moisture content of in-situ soils will be higher than the moisture content of excavated sediments, due to the natural process of evaporation and infiltration.

Analysis of moisture content is required for Class III landfill acceptance for wet soils. In addition, it is necessary to measure the moisture content in order to determine the dry weight concentrations of constituents within the sediment.

Testing Performed

All samples except residual sediment samples were analyzed for moisture content by EPA Method 160.3.

Summary of Analytical Results

Moisture content for composite samples ranged from 2.9 percent to 94 percent (BerryPied01 and Calabazas08, respectively).

For continuous core samples, moisture content ranged from 5.7 percent to 80 percent (BerryCropCC01 and CalabazasCC03, respectively).

TOTAL ORGANIC CARBON

Organic matter occurs naturally in sediment due to aquatic plant and animal life. Organic matter may also be deposited in the creek by non-point source runoff.

The percentage of organic matter in the sediment is of concern because soils with high levels of organic content may be considered putrescent. The levels of organic content are also important if the sediments are to be used as a soil amendment or as structural fill.

Testing Performed

All samples except residual sediment samples were analyzed for TOC by EPA Method 415.2.

Summary of Analytical Results

Total organic carbon ranged from 18,000 mg/Kg in sample Adobe01A to 1600 mg/Kg in sample Ross01 for composite samples.

Total organic carbon for continuous core samples ranged from 24,000 mg/Kg in sample AdobeCC01 to 770 mg/Kg in sample BerryMilCC02.

SALINITY

Sediments in tidal areas may contain elevated levels of salinity. Salinity is of concern because it may be toxic to freshwater aquatic life. Class III landfills may also have restrictions on salinity levels.

Testing Performed

All samples in tidal areas only except residual sediment samples were tested for chloride by EPA Method 300.0.

Summary of Analytical Results

For composite samples, chloride ranged from a high of 230 mg/Kg in sample BerryMil02, to a low of 35 mg/Kg in sample Adobe01A.

For continuous core samples, chloride ranged from a high of 380 mg/Kg in sample CoyoteCC01 to a low of 12 mg/Kg in sample GuadalupeCC03.

PHYSICAL PARAMETERS

The physical parameters of the sediments must be known to determine if a sediment is suitable for reuse as a construction material, or as a topsoil or soil amendment. Physical parameters of concern include grain size distribution and Atterberg Limits (liquid limit and plastic limit).

Grain Size Distribution

Grain size distribution is measured using both sieves and hydrometer; sieves classify the coarse-grained fraction (sand and gravel), while a hydrometer classifies the fine-grained fraction (clays and silts). The sieve test can be used to determine the distribution of the coarse-grained materials, but not the distribution of fines. Sediments with significant quantities of fines (greater than 10 percent pasing a No. 200 sieve) should be analyzed by the hydrometer method to determine the distribution of fines.

Testing Performed

All samples except residual sediment samples were tested for grain size distribution using sieves to determine the distribution of the course fraction by ASTM Method D422 - sieve test. Samples containing grater than 10 percent fines were tested for grain size distribution using the hydrometer by ASTM D422 - hydrometer.

Summary of Analytical Results

Grain size distribution results for each sample varied in range from clay to coarse gravel.

Test results are presented in Appendix B.

Atterberg Limits

The Atterberg Limits are used to determine the engineering properties of fine-grained soils passing a No. 40 sieve (clay, silts, and fine sands). District engineers recommend soils be tested for grain size distribution and plasticity index. A representative of a local Class III landfill recommends that sediments used as engineered fill be tested for the plasticity index by the WET method.

Testing Performed

All samples except residual sediment samples were tested for Atterberg Limits by ASTM Method D4318 and Method B (dry preparation).

Summary of Analytical Results

Test results are presented in Appendix B.

PETROLEUM PRODUCTS

Petroleum products may be present in the sediment due to non-point source of pollution which are washed into the creek. Petroleum products which may have been deposited in the creek over time include heavier hydrocarbons (such as motor oil). Since the creek is a system which is open to the atmosphere, it is not likely that sediments will contain volatile hydrocarbons.

Testing Performed

All samples except residual sediment samples were analyzed for total extractable petroleum hydrocarbons, for petroleum in the range of C8 through C28, by California LUFT Modified 8015 method (THE—Kerosene, Diesel).

Summary of Analytical Results

Kerosene, C9-18

Kerosene concentrations varied by sample site. The following sites tested below the detectable limit of 1.0 mg/Kg: Calabazas07 (composite), Calabazas08 (composite), Ross01 (composite), BerryMilCC02 (continuous core), CalabazasCC03 (continuous core), CoyoteCC01 (continuous core), MataderoCC01 (continuous core), RossCC01 (continuous core), and RuckerCC01 (continuous core).

The highest level of Kerosene detected for the composite samples was 31 mg/Kg in sample Canoas01, and for the continuous core samples was 34 mg/Kg in sample CaleraMilCC01.

Diesel

Diesel levels varied by sample site. All sites tested above the detectable level of 1.0 mg/Kg.

The highest level detected for composite samples was 150 mg/Kg at both Adobe01A and Canoas01. For continuous core samples, the highest level of diesel detected was 160 mg/Kg at CaleraMilCC01.

TOXICITY

Creek sediment may be toxic due to non-point source pollutants which may have been deposited into the creeks. Toxicity is of concern if the sediment is to be reused. Sediment toxicity tests will be conducted only on composite samples from sites where the waters may not be controlled during sediment removal operations due to tidal action.

Testing Performed

All samples in tidal areas except residual sediment samples were tested for toxicity by means of a toxicity screening bioassay, by the test method specified in California Code of Regulations, Title 22. The samples were tested using *Eohaustorius estuarius*.

Summary of Analytical Results

From the first set of samples submitted to the lab, results showed a 90% survival of amphipods at 1.5 mg/L cadmium concentration, where the Control treatment showed a 100% survival rate.

At 3 mg/L cadmium, the survival rate was reduced to 50%, which was significantly less than the Control. The resulting EC50 value was 3.8 mg/L.

The second set of samples submitted to the lab resulted in a 90% survival rate of Amphipods at 1.5 mg/L. At 3.0 mg/L, amphipod survival was reduced to 55%, which was also significantly less than the Control. The resulting EC50 value was 4.2 mg/L.

The current reference toxicant test ED50 of 3.8 and 4.2 mg/L is well within the "acceptability" range of the labs house reference toxicant test data base of 1.4 - 8.0 mg/L, indicating that these amphipods were responding to toxicant stress in a consistent and typical fashion.

Results are presented in Appendix C.

pH

The pH of sediment is of concern for sediment reuse. Extremely high or low pH may indicate contamination. In addition, pH is useful for determining the suitability of the soil for reuse as a topsoil or soil amendment.

Testing Performed

All samples except residual sediment samples were tested for pH by EPA Method 150.1.

Summary of Analytical Results

pH ranged from 7.7 at sample site Adobe01A to 9.34 at sample site Calabazas08 for composite samples.

For continuous core samples, pH ranged from 7.38 at sample site MataderoCC01 to 8.53 at sample site RossCC01. These ranges are neutral to slightly basic.

Results are presented in Appendix A.

ASBESTOS

Asbestos may be present in sediment due to the presence of asbestos-containing serpentine rock formations within the Santa Clara Valley. Serpentine rocks may have been used in the construction of levees constructed by landowners; therefore, there is a possibility that asbestos may be present in sites where there are no serpentine formations.

Testing Performed

All samples except residual sediment samples were analyzed by EPA Method 600R-93-116 (phase light microscopy).

Summary of Analytical Results

Sample site FlintCC01 tested 3 percent cellulose; Guadalupe01 and GuadalupeCC03 resulted in 5 percent cellulose; Guadalupe03 resulted in 2 percent cellulose; and Randol 01 and RandolCC01 resulted in 4 percent cellulose. All other samples tested less than 1 percent cellulose.

Results are presented in Appendix D.

APPENDIX A

2001 Sedimen noval Project -
Analytical Data fr ediment Samples
Continuous re Samples

		AdobeCC01 (continuous)		BerryMilCC01 (continuous)		BerryMilCC02 (continuous)		BerryCropCC01 (continuous)		BerryPiedCC01 (continuous)		CalabazasCC01 (continuous)		CalabazasCC02 (continuous)		CalabazasCC03 (continuous)		CalabazasCC04 (continuous)		CalabazasCC05 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.0370	0.0035	0.0550	0.0038	0.0270	0.0036	0.0940	0.0037	0.0720	0.0034	0.0280	0.0043	0.1700	0.0034	0.073	0.0037	0.0230	0.0047	0.0640	0.0034
Antimony	mg/Kg	ND	1.800	ND	1.800	ND	1.800	ND	1.800	ND	1.700	ND	1.800	ND	1.900	2.3	1.800	ND	2.100	ND	1.800
Arsenic	mg/Kg	3.800	3.600	7.000	3.600	5.900	3.600	13.000	3.600	7.100	3.400	ND	3.600	5.000	3.700	8.600	3.600	ND	4.200	4.100	3.700
Barium	mg/Kg	88.000	4.500	56.000	4.500	130.000	4.500	110.000	4.500	79.000	4.200	52.000	4.500	110.000	4.600	170.000	4.500	60.000	5.300	68.000	4.600
Beryllium	mg/Kg	ND	0.450	ND	0.450	ND	0.450	ND	0.450	ND	0.420	ND	0.450	ND	0.460	ND	0.450	ND	0.530	ND	0.460
Cadmium	mg/Kg	ND	0.550	ND	0.550	ND	0.550	ND	0.550	ND	0.510	ND	0.550	ND	0.560	ND	0.550	ND	0.630	ND	0.550
Chromium	mg/Kg	79.000	5.500	25.000	5.500	31.000	5.500	32.000	5.500	30.000	5.100	37.000	5.500	85.000	5.600	57.000	5.500	39.000	6.300	35.000	5.500
Cobalt	mg/Kg	15.000	0.910	7.500	0.910	7.800	0.910	8.500	0.910	7.800	0.850	11.000	0.910	16.000	0.930	16.000	0.910	9.900	1.100	9.600	0.920
Copper	mg/Kg	32.000	1.800	14.000	1.800	16.000	1.800	24.000	1.800	61.000	1.700	13.000	1.800	25.000	1.900	33.000	1.800	14.000	2.100	14.000	1.800
Lead	mg/Kg	17.000	4.500	5.300	4.500	4.900	4.500	11.000	4.500	4.400	4.200	ND	4.500	17.000	4.600	10.000	4.500	7.500	5.300	12.000	4.600
Molybdenum	mg/Kg	ND	0.910	ND	0.910	ND	0.910	ND	0.910	ND	0.850	ND	0.910	ND	0.930	ND	0.910	ND	1.100	ND	0.920
Nickel	mg/Kg	57.000	0.910	44.000	0.910	44.000	0.910	51.000	0.910	38.000	0.850	37.000	0.910	100.000	0.930	67.000	0.910	42.000	1.100	37.000	0.920
Selenium	mg/Kg	ND	4.500	ND	4.500	ND	4.500	ND	4.500	ND	4.200	ND	4.500	ND	4.600	ND	4.500	ND	5.300	ND	4.600
Silver	mg/Kg	ND	1.400	ND	1.400	ND	1.400	ND	1.400	ND	1.300	ND	1.400	ND	1.400	ND	1.400	ND	1.600	ND	1.400
Thallium	mg/Kg	ND	1.600	ND	1.600	2.600	1.600	ND	1.600	5.400	1.500	ND	1.600	ND	1.700	ND	1.600	ND	1.900	ND	1.700
Vanadium	mg/Kg	65.000	1.400	29.000	1.400	31.000	1.400	40.000	1.400	34.000	1.300	37.000	1.400	48.000	1.400	60.000	1.400	39.000	1.600	35.000	1.400
Zinc	mg/Kg	88.000	6.400	41.000	6.400	37.000	6.400	59.000	6.400	40.000	5.900	54.000	6.400	79.000	6.500	61.000	6.400	48.000	7.400	48.000	6.400
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Soluable Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Arsenic	ug/L	290.0	200.0	ND	200.0	2000.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	7000.0	200.0	16000.0	200.0	12000.0	200.0	6900.0	200.0	20000.0	200.0	6000.0	200.0	9900.0	200.0	12000.0	200.0	6500.0	200.0	7300.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	ND	20.0	21.0	20.0	ND	20.0	20.0	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Chromium	ug/L	920.0	20.0	150.0	20.0	140.0	20.0	270.0	20.0	230.0	20.0	570.0	20.0	770.0	20.0	130.0	20.0	640.0	20.0	670.0	20.0
Cobalt	ug/L	290.0	80.0	190.0	80.0	230.0	80.0	190.0	80.0	210.0	80.0	360.0	80.0	360.0	80.0	410.0	80.0	220.0	80.0	430.0	80.0
Copper	ug/L	ND	20.0	140.0	20.0	100.0	20.0	550.0	20.0	380.0	20.0	ND	20.0	23.0	20.0	420.0	20.0	ND	20.0	ND	20.0
Lead	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	200.0	200.0	400.0	200.0	ND	200.0	220.0	200.0	330.0	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	670.0	80.0	770.0	80.0	490.0	80.0	1900.0	80.0	1300.0	80.0	670.0	80.0	840.0	80.0	530.0	80.0	550.0	80.0	860.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	680.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	580.0	200.0	860.0	200.0	ND	200.0	390.0	200.0	630.0	200.0
Vanadium	ug/L	870.0	80.0	170.0	80.0	350.0	80.0	140.0	80.0	150.0	80.0	480.0	80.0	1000.0	80.0	460.0	80.0	680.0	80.0	750.0	80.0
Zinc	ug/L	4600.0	20.0	1200.0	20.0	800.0	20.0	1100.0	20.0	990.0	20.0	2600.0	20.0	5800.0	20.0	1100.0	20.0	2200.0	20.0	2900.0	20.0
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
4,4-DDT	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

*Lab missed hold time - Sample not analyzed

File: ks\2001 Sample Results SC\ContCore

Analytical Data for Sediment Samples
Continuous Core Samples

Analyte	units	CalabazasCC06 (continuous)		CalabazasCC07 (continuous)		CalabazasCC08 (continuous)		CaleraMilCC01 (continuous)		CaleraEscCC01 (continuous)		CanoasCC01 (continuous)		CoyoteCC01 (continuous)		FlintCC01 (continuous)		FlintCC02 (continuous)		FlintCC03 (continuous)	
		results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.0210	0.0038	0.024	0.0034	0.0700	0.0034	0.1100	0.0044	0.0560	0.0035	0.2800	0.0038	0.0510	0.0036	0.3400	0.0040	0.5100	0.0036	0.1800	0.0038
Antimony	mg/Kg	ND	1.800	ND	1.800	ND	1.900	ND	1.700	ND	1.700	ND	1.600	ND	1.500	ND	1.800	ND	1.800	ND	1.800
Arsenic	mg/Kg	6.200	3.600	4.400	3.600	4.700	3.800	ND	3.400	9.100	3.400	5.800	3.200	8.400	3.100	6.400	3.600	8.500	3.600	6.900	3.600
Barium	mg/Kg	61.000	4.500	72.000	4.500	80.000	4.700	120.000	4.200	170.000	4.300	79.000	4.000	61.000	3.800	120.000	4.500	85.000	4.500	130.000	4.500
Beryllium	mg/Kg	ND	0.450	ND	0.450	ND	0.470	ND	0.420	ND	0.430	ND	0.400	ND	0.380	ND	0.450	ND	0.450	ND	0.450
Cadmium	mg/Kg	ND	0.550	ND	0.550	ND	0.570	0.610	0.510	ND	0.520	ND	0.480	ND	0.460	0.700	0.550	0.700	0.540	0.900	0.550
Chromium	mg/Kg	54.000	5.500	52.000	5.500	43.000	5.700	32.000	5.100	41.000	5.200	64.000	4.800	35.000	4.600	21.000	5.500	17.000	5.400	23.000	5.500
Cobalt	mg/Kg	12.000	0.910	11.000	0.910	9.000	0.940	6.800	0.850	8.900	0.860	11.000	0.810	8.900	0.760	4.600	0.910	3.900	0.900	5.400	0.910
Copper	mg/Kg	18.000	1.800	19.000	1.800	22.000	1.900	32.000	1.700	16.000	1.700	18.000	1.600	23.000	1.500	9.400	1.800	8.200	1.800	11.000	1.800
Lead	mg/Kg	7.100	4.500	5.300	4.500	ND	4.700	65.000	4.200	8.000	4.300	42.000	4.000	6.700	3.800	6.200	4.500	8.000	4.500	10.000	4.500
Molybdenum	mg/Kg	ND	0.910	ND	0.910	ND	0.940	ND	0.850	ND	0.860	ND	0.810	ND	0.760	ND	0.910	ND	0.900	ND	0.910
Nickel	mg/Kg	66.000	0.910	47.000	0.910	38.000	0.940	41.000	0.850	51.000	0.860	82.000	0.810	37.000	0.760	22.000	0.910	18.000	0.900	23.000	0.910
Selenium	mg/Kg	ND	4.500	ND	4.500	ND	4.700	ND	4.200	ND	4.300	ND	4.000	ND	3.800	ND	4.500	ND	4.500	ND	4.500
Silver	mg/Kg	ND	1.400	ND	1.400	ND	1.400	ND	1.300	ND	1.300	ND	1.200	ND	1.100	ND	1.400	ND	1.400	ND	1.400
Thallium	mg/Kg	ND	1.600	ND	1.600	ND	1.700	ND	1.500	1.900	1.600	4.000	1.500	5.800	1.400	2.200	1.600	ND	1.600	4.300	1.600
Vanadium	mg/Kg	47.000	1.400	54.000	1.400	47.000	1.400	26.000	1.300	34.000	1.300	27.000	1.200	31.000	1.100	27.000	1.400	23.000	1.400	27.000	1.400
Zinc	mg/Kg	52.000	6.400	49.000	6.400	70.000	6.600	150.000	5.900	44.000	6.000	140.000	5.600	48.000	5.300	34.000	6.400	38.000	6.300	45.000	6.400
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		0.408	0.070	Not Analyzed		Not Analyzed		Not Analyzed	
Soluable Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Arsenic	ug/L	ND	200.0	480.0	200.0	390.0	200.0	370.0	200.0	290.0	200.0	240.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	4400.0	200.0	5100.0	200.0	6600.0	200.0	11000.0	200.0	13000.0	200.0	7400.0	200.0	6300.0	200.0	7100.0	200.0	6200.0	200.0	7600.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	52.0	20.0	35.0	20.0	ND	20.0
Chromium	ug/L	100.0	20.0	120.0	20.0	140.0	20.0	270.0	20.0	79.0	20.0	760.0	20.0	200.0	20.0	75.0	20.0	110.0	20.0	150.0	20.0
Cobalt	ug/L	130.0	80.0	170.0	80.0	240.0	80.0	200.0	80.0	290.0	80.0	400.0	80.0	310.0	80.0	230.0	80.0	210.0	80.0	250.0	80.0
Copper	ug/L	110.0	20.0	130.0	20.0	200.0	20.0	45.0	20.0	190.0	20.0	ND	20.0	190.0	20.0	140.0	20.0	ND	20.0	ND	20.0
Lead	ug/L	ND	200.0	ND	200.0	ND	200.0	2600.0	200.0	ND	200.0	1200.0	200.0	410.0	200.0	250.0	200.0	3300.0	200.0	220.0	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	240.0	80.0	380.0	80.0	500.0	80.0	690.0	80.0	600.0	80.0	1500.0	80.0	690.0	80.0	430.0	80.0	480.0	80.0	610.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	ND	200.0	ND	200.0	ND	200.0	480.0	200.0	ND	200.0	790.0	200.0	410.0	200.0	270.0	200.0	550.0	200.0	830.0	200.0
Vanadium	ug/L	120.0	80.0	180.0	80.0	210.0	80.0	710.0	80.0	570.0	80.0	690.0	80.0	230.0	80.0	300.0	80.0	480.0	80.0	750.0	80.0
Zinc	ug/L	1600.0	20.0	1600.0	20.0	2500.0	20.0	9100.0	20.0	1900.0	20.0	6900.0	20.0	2100.0	20.0	1600.0	20.0	1600.0	20.0	2100.0	20.0
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	2.7	2.0	8.2	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
4,4-DDT	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	1.4	1.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	80.0	ND	80.0	ND	80.0	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

*Lab m' hold time - Sample not analyzed
File: ks ample Results SC\ContCore

2001 Sedimen moval Project -
Analytical Data f ediment Samples
Continuou re Samples

		FlintCC04 (continuous)		FlintCC05 (continuous)		GuadalupeCC01 (continuous)		GuadalupeCC02 (continuous)		GuadalupeCC03 (continuous)		LosCochesCC02 (continuous)		MataderoCC01 (continuous)		RandolCC01 (continuous)		RossCC01 (continuous)		RuckerCC01 (continuous)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.1600	0.0038	0.3700	0.0035	0.1100	0.0036	0.3800	0.0044	1.6000	0.0200	0.0290	0.0034	0.0510	0.0040	3.7000	0.0350	0.3200	0.0037	0.0310	0.0035
Antimony	mg/Kg	ND	1.800	ND	1.700	ND	1.800	ND	1.700	ND	1.600	ND	1.700	ND	1.800	ND	1.800	ND	1.700	ND	1.500
Arsenic	mg/Kg	6.600	3.500	6.600	3.400	12.000	3.600	8.800	3.400	5.800	3.300	3.700	3.300	6.200	3.600	6.000	3.600	5.400	3.500	12.000	3.100
Barium	mg/Kg	130.000	4.400	120.000	4.300	160.000	4.500	140.000	4.200	120.000	4.100	93.000	4.100	75.000	4.500	69.000	4.500	72.000	4.300	150.000	3.800
Beryllium	mg/Kg	ND	0.440	ND	0.430	ND	0.450	ND	0.420	ND	0.410	ND	0.410	ND	0.450	ND	0.450	ND	0.430	ND	0.380
Cadmium	mg/Kg	0.770	0.530	0.930	0.510	ND	0.540	ND	0.500	0.630	0.490	ND	0.500	ND	0.550	ND	0.540	ND	0.520	ND	0.460
Chromium	mg/Kg	24.000	5.300	20.000	5.100	62.000	5.400	52.000	5.000	69.000	4.900	22.000	5.000	46.000	5.500	100.000	5.400	42.000	5.200	37.000	4.600
Cobalt	mg/Kg	5.800	0.880	4.100	0.850	14.000	0.890	10.000	0.840	13.000	0.810	5.100	0.830	9.900	0.910	18.000	0.890	9.100	0.870	9.700	0.770
Copper	mg/Kg	11.000	1.800	7.600	1.700	32.000	1.800	26.000	1.700	43.000	1.600	9.300	1.700	28.000	1.800	24.000	1.800	13.000	1.700	26.000	1.500
Lead	mg/Kg	9.800	4.400	4.800	4.300	10.000	4.500	11.000	4.200	43.000	4.100	6.700	4.100	25.000	4.500	12.000	4.500	11.000	4.300	16.000	3.800
Molybdenum	mg/Kg	ND	0.880	ND	0.850	ND	0.890	ND	0.840	ND	0.810	ND	0.830	ND	0.910	ND	0.890	ND	0.870	ND	0.770
Nickel	mg/Kg	22.000	0.880	17.000	0.850	88.000	0.890	56.000	0.840	78.000	0.810	28.000	0.830	50.000	0.910	150.000	0.890	46.000	0.870	32.000	0.770
Selenium	mg/Kg	ND	4.400	ND	0.430	ND	4.500	ND	4.200	ND	4.100	ND	4.100	ND	4.500	ND	4.500	ND	4.300	ND	3.800
Silver	mg/Kg	ND	1.300	ND	1.300	ND	1.300	ND	1.300	ND	1.200	ND	1.200	ND	1.400	ND	1.300	ND	1.300	ND	1.200
Thallium	mg/Kg	4.200	1.600	3.100	1.500	9.900	1.600	4.800	1.500	7.200	1.500	ND	1.500	ND	1.600	2.300	1.600	ND	1.600	7.100	1.400
Vanadium	mg/Kg	29.000	1.300	25.000	1.300	45.000	1.300	46.000	1.300	44.000	1.200	19.000	1.200	35.000	1.400	47.000	1.300	39.000	1.300	37.000	1.200
Zinc	mg/Kg	49.000	6.200	33.000	6.000	66.000	6.200	55.000	5.900	150.000	5.700	33.000	5.800	66.000	6.400	110.000	6.200	75.000	6.100	51.000	5.400
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		0.072	0.070	0.380	0.070	0.795	0.070	Not Analyzed		Not Analyzed		0.225	0.070	Not Analyzed		Not Analyzed	
Soluable Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Arsenic	ug/L	370.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	310.0	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	8500.0	200.0	6900.0	200.0	10000.0	200.0	9600.0	200.0	8800.0	200.0	7100.0	200.0	5800.0	200.0	5800.0	200.0	5900.0	200.0	11000.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	42.0	20.0	ND	20.0	ND	20.0	38.0	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Chromium	ug/L	230.0	20.0	ND	20.0	310.0	20.0	210.0	20.0	700.0	20.0	47.0	20.0	760.0	20.0	2300.0	20.0	260.0	20.0	270.0	20.0
Cobalt	ug/L	280.0	80.0	ND	80.0	560.0	80.0	720.0	80.0	470.0	80.0	220.0	80.0	160.0	80.0	750.0	80.0	270.0	80.0	590.0	80.0
Copper	ug/L	24.0	20.0	49.0	20.0	220.0	20.0	250.0	20.0	1500.0	20.0	150.0	20.0	ND	20.0	ND	20.0	140.0	20.0	140.0	20.0
Lead	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	2000.0	200.0	ND	200.0	ND	200.0	ND	200.0	350.0	200.0	330.0	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	700.0	80.0	160.0	80.0	1600.0	80.0	1300.0	80.0	1400.0	80.0	430.0	80.0	820.0	80.0	5000.0	80.0	750.0	80.0	480.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	1200.0	200.0	ND	200.0	290.0	200.0	ND	200.0	570.0	200.0	ND	200.0	530.0	200.0	1200.0	200.0	300.0	200.0	550.0	200.0
Vanadium	ug/L	1100.0	80.0	ND	80.0	410.0	80.0	820.0	80.0	650.0	80.0	220.0	80.0	940.0	80.0	1000.0	80.0	350.0	80.0	670.0	80.0
Zinc	ug/L	2000.0	20.0	1800.0	20.0	1100.0	20.0	1200.0	20.0	7300.0	20.0	1800.0	20.0	2600.0	20.0	5600.0	20.0	3900.0	20.0	1500.0	20.0
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	200.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	6.0	ND	6.0	ND	6.0	13	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	3.3	2.0	ND	2.0	ND	2.0	3.3	2.0	3.8	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
4,4-DDT	ug/Kg	ND	6.0	ND	6.0	ND	6.0	14	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0	ND	1.0	ND	1.0	12	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	200.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	800.0	ND	800.0	ND	80.0	ND	80.0

*Lab missed hold time - Sample not analyzed

2001 Sediment Removal Project -
Analytical Data for Sediment Samples
Continuous Core Samples

		SierraCC01 (continuous)	
Analyte	**units**	results	det. lim.
Total Metals, TTLC			
Mercury	mg/Kg	0.0290	0.0039
Antimony	mg/Kg	ND	1.800
Arsenic	mg/Kg	6.300	3.500
Barium	mg/Kg	120.000	4.400
Beryllium	mg/Kg	ND	0.440
Cadmium	mg/Kg	ND	0.530
Chromium	mg/Kg	62.000	5.300
Cobalt	mg/Kg	8.600	0.880
Copper	mg/Kg	15.000	1.800
Lead	mg/Kg	5.500	4.400
Molybdenum	mg/Kg	ND	0.880
Nickel	mg/Kg	100.000	0.880
Selenium	mg/Kg	ND	4.400
Silver	mg/Kg	ND	1.300
Thallium	mg/Kg	4.200	1.600
Vanadium	mg/Kg	26.000	1.300
Zinc	mg/Kg	40.000	6.200
Methyl Mercury, (EPA 1630 Modified)			
Methyl Mercury	ng/g	Not Analyzed	
Soluable Metals, STLC			
Mercury	ug/L	ND	1.0
Antimony	ug/L	ND	200.0
Arsenic	ug/L	ND	200.0
Barium	ug/L	6500.0	200.0
Beryllium	ug/L	ND	20.0
Cadmium	ug/L	22.0	20.0
Chromium	ug/L	430.0	20.0
Cobalt	ug/L	220.0	80.0
Copper	ug/L	56.0	20.0
Lead	ug/L	ND	200.0
Molybdenum	ug/L	ND	80.0
Nickel	ug/L	1200.0	80.0
Selenium	ug/L	ND	200.0
Silver	ug/L	ND	20.0
Thallium	ug/L	240.0	200.0
Vanadium	ug/L	200.0	80.0
Zinc	ug/L	1400.0	20.0
Pesticides (EPA 8081)			
Aldrin	ug/Kg	ND	1.0
alpha-BHC	ug/Kg	ND	1.0
beta-BHC	ug/Kg	ND	1.0
delta-BHC	ug/Kg	ND	1.0
gamma-BHC	ug/Kg	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0
4,4-DDD	ug/Kg	ND	6.0
4,4-DDE	ug/Kg	ND	2.0
4,4-DDT	ug/Kg	ND	6.0
Dieldrin	ug/Kg	ND	2.0
Endosulfan I	ug/Kg	ND	2.0
Endosulfan II	ug/Kg	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0
Endrin	ug/Kg	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0
Endrin keytone	ug/Kg	ND	6.0
Heptachlor	ug/Kg	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0
Methoxychlor	ug/Kg	ND	20.0
Toxaphene	ug/Kg	ND	80.0

*Lab mis old time - Sample not analyzed
File: ks\ mple Results SC\ContCore

Analytical Data f diment Samples
Continuou re Samples

Analyte	units	AdobeCC01 (continuous)		BerryMilCC01 (continuous)		BerryMilCC02 (continuous)		BerryCropCC01 (continuous)		BerryPiedCC01 (continuous)		CalabazasCC01 (continuous)		CalabazasCC02 (continuous)		CalabazasCC03 (continuous)		CalabazasCC04 (continuous)		CalabazasCC05 (continuous)	
		results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
PCBs (8082)																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Organophosphorous Comp. (EPA 8141)																					
Azinphos-methyl	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Bolstar	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Chloropyrifos	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Coumaphos	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Demeton	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Diazanon	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Dichlorvos	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Disulfoton	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Ethion	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Ethoprop	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
EPN	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Fensulfothion	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Fenthion	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Malathion	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Merphos	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Mevinphos	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Monocrotophos	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Naled	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Parathion-ethyl	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Parathion-methyl	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Phorate	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Ronnel	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Stirophos	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Sulfotep	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Trichloronate	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
PAHs (EPA 8310)																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	2000	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	100000	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	2000	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	1500	400	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	130.0	10	ND	10	ND	10	ND	10	ND	10	8300	200	46	10	ND	10	12	10	18	10
Anthracene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	2300	200	ND	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	360.0	20	ND	20	ND	20	ND	20	ND	20	8100	400	110	20	ND	20	33	20	60	20
Pyrene	ug/Kg	300.0	10	ND	10	ND	10	ND	10	ND	10	6800	200	110	10	ND	10	39	10	51	10
Benzo(a)anthracene	ug/Kg	96.0	10	ND	10	ND	10	ND	10	ND	10	2500	200	31	10	ND	10	14	10	16	10
Chrysene	ug/Kg	180.0	10	ND	10	ND	10	ND	10	ND	10	3100	200	55	10	ND	10	18	10	31	10
Benzo(b)fluoranthene	ug/Kg	170.0	20	ND	20	ND	20	ND	20	ND	20	2000	400	61	20	ND	20	25	20	33	20
Benzo(k)fluoranthene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	1100	200	28	10	ND	10	ND	10	18	10
Benzo(a)pyrene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	2400	200	56	10	ND	10	21	10	30	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	400	40	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	170.0	20	ND	20	ND	20	ND	20	ND	20	1500	400	76	20	ND	20	29	20	28	20
Indeno(1,2,3-cd)pyrene	ug/Kg	210.0	20	ND	20	ND	20	ND	20	ND	20	1600	400	49	20	ND	20	ND	20	30	20
Moisture Content (EPA 160.3)																					
Moisture Content	%	37	0.10	Not Analyzed		20.0	0.10	5.7	0.10	5.8	0.10	Not Analyzed		Not Analyzed		80	0.10	Not Analyzed		Not Analyzed	
TEH-Kerosene/Diesel (DHS-LUFT)																					
Kerosene C9-C18	mg/Kg	31	10	Not Analyzed		ND	1.0	2.9	1.0	2.1	1.0	Not Analyzed		Not Analyzed		ND	1.0	Not Analyzed		Not Analyzed	
Diesel	mg/Kg	100	10	Not Analyzed		3.1	1.0	5.7	1.0	3.6	1.0	Not Analyzed		Not Analyzed		1.6	1.0	Not Analyzed		Not Analyzed	

*Lab missed hold time - Sample not analyzed

Analytical Data for Sediment Samples
Continuous Core Samples

Analyte	units	CalabazasCC06 (continuous)		CalabazasCC07 (continuous)		CalabazasCC08 (continuous)		CaleraMilCC01 (continuous)		CaleraEscCC01 (continuous)		CanoasCC01 (continuous)		CoyoteCC01 (continuous)		FlintCC01 (continuous)		FlintCC02 (continuous)		FlintCC03 (continuous)	
		results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
PCBs (8082)																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Organophosphorous Comp. (EPA 8141)																					
Azinphos-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Bolstar	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Chloropyrifos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Coumaphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Demeton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Diazanon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorvos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Disulfoton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Ethion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Ethoprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
EPN	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Fensulfothion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Fenthion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Malathion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Merphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Mevinphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Monocrotophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Naled	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Parathion-ethyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Parathion-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Phorate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Ronnel	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Stirophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Sulfotep	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Trichloronate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
PAHs (EPA 8310)																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	77	20	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	ND	10	25	10	13	10	35	10	ND	10	940	10	ND	10	ND	10	ND	10	ND	10
Anthracene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	110	10	ND	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	ND	20	68	20	40	20	110	20	ND	20	1700	100	ND	20	ND	20	ND	20	ND	20
Pyrene	ug/Kg	ND	10	68	10	36	10	110	10	ND	10	1400	50	ND	10	ND	10	ND	10	ND	10
Benzo(a)anthracene	ug/Kg	ND	10	21	10	10	10	48	10	ND	10	500	50	ND	10	ND	10	ND	10	ND	10
Chrysene	ug/Kg	ND	10	40	10	19	10	60	10	ND	10	700	50	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	ug/Kg	ND	20	34	20	32	20	110	20	ND	20	570	20	ND	20	ND	20	ND	20	ND	20
Benzo(k)fluoranthene	ug/Kg	ND	10	16	10	11	10	410	10	ND	10	250	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	ug/Kg	ND	10	30	10	20	10	220	10	ND	10	610	50	ND	10	ND	10	ND	10	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	100	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	ND	20	26	20	ND	20	70	20	ND	20	540	20	ND	20	ND	20	ND	20	ND	20
Indeno(1,2,3-cd)pyrene	ug/Kg	ND	20	32	20	ND	20	100	20	ND	20	270	20	ND	20	ND	20	ND	20	ND	20
Moisture Content (EPA 160.3)																					
Moisture Content	%	Not Analyzed		Not Analyzed		Not Analyzed		53	0.10	20	0.10	24	0.10	16	0.10	8.0	0.10	Not Analyzed		Not Analyzed	
TEH-Kerosene/Diesel (DHS-LUFT)																					
Kerosene C9-C18	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		34	4.0	2.0	1.0	16	4.0	ND	1.0	2.1	1.0	Not Analyzed		Not Analyzed	
Diesel	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		160.0	4.0	5.2	1.0	82	4.0	3.7	1.0	6.3	1.0	Not Analyzed		Not Analyzed	

*Lab r d hold time - Sample not analyzed
File: ! Sample Results SC\ContCore

Analytical Data ediment Samples

Continuou re Samples

Analyte	units	FlintCC04 (continuous)		FlintCC05 (continuous)		GuadalupeCC01 (continuous)		GuadalupeCC02 (continuous)		GuadalupeCC03 (continuous)		LosCochesCC02 (continuous)		MataderoCC01 (continuous)		RandolCC01 (continuous)		RossCC01 (continuous)		RuckerCC01 (continuous)	
		results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
PCBs (8082)																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Organophosphorous Comp. (EPA 8141)																					
Azinphos-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Bolstar	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Chloropyrifos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Coumaphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Demeton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Diazanon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Dichlorvos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Disulfoton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Ethion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Ethoprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
EPN	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Fensulfothion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Fenthion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Malathion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Merphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Mevinphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Monocrotophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Naled	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Parathion-ethyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Parathion-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Phorate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Ronnel	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Stirophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Sulfotep	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Trichloronate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
PAHs (EPA 8310)																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	22	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	ND	10	ND	10	ND	10	15	10	54	10	13	10	250	10	ND	10	ND	10	ND	10
Anthracene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	140	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	ND	20	ND	20	ND	20	33	20	160	20	39	20	630	20	ND	20	ND	20	ND	20
Pyrene	ug/Kg	ND	10	ND	10	ND	10	41	10	150	10	25	10	450	20	35	10	ND	10	ND	10
Benzo(a)anthracene	ug/Kg	ND	10	ND	10	ND	10	13	10	35	10	ND	10	210	10	11	10	ND	10	ND	10
Chrysene	ug/Kg	ND	10	ND	10	ND	10	ND	10	89	10	15	10	280	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	ug/Kg	ND	20	ND	20	ND	20	63	20	120	20	ND	20	250	20	ND	20	ND	20	ND	20
Benzo(k)fluoranthene	ug/Kg	ND	10	ND	10	ND	10	ND	10	47	10	ND	10	300	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	ug/Kg	ND	10	ND	10	ND	10	64	10	100	10	17	10	320	10	ND	10	ND	10	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	ND	20	ND	20	ND	20	ND	20	130	20	ND	20	210	20	ND	20	ND	20	ND	20
Indeno(1,2,3-cd)pyrene	ug/Kg	ND	20	ND	20	ND	20	ND	20	110	20	ND	20	140	20	ND	20	ND	20	ND	20
Moisture Content (EPA 160.3)																					
Moisture Content	%	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		33	0.10	28	0.10	42	0.10	33	0.10	16	0.10	24	0.10
TEH-Kerosene/Diesel (DHS-LUFT)																					
Kerosene C9-C18	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		8.7	1.0	3.9	1.0	ND	1.0	17	1.0	ND	1.0	ND	1.0
Diesel	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		51.0	1.0	13.0	1.0	33.0	1.0	31.0	1.0	2.9	1.0	1.2	1.0

*Lab missed hold time - Sample not analyzed

2001 Sediment Removal Project -
Analytical Data for Sediment Samples
Continuous Core Samples

		SierraCC01 (continuous)	
Analyte	**units**	**results**	**det. lim.**
PCBs (8082)			
PCB-1016	ug/Kg	Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed	
Organophosphorous Comp. (EPA 8141)			
Azinphos-methyl	ug/Kg	ND	40
Bolstar	ug/Kg	ND	20
Chloropyrifos	ug/Kg	ND	20
Coumaphos	ug/Kg	ND	40
Demeton	ug/Kg	ND	20
Diazanon	ug/Kg	ND	20
Dichlorvos	ug/Kg	ND	20
Disulfoton	ug/Kg	ND	20
Ethion	ug/Kg	ND	20
Ethoprop	ug/Kg	ND	20
EPN	ug/Kg	ND	20
Fensulfothion	ug/Kg	ND	20
Fenthion	ug/Kg	ND	20
Malathion	ug/Kg	ND	20
Merphos	ug/Kg	ND	20
Mevinphos	ug/Kg	ND	20
Monocrotophos	ug/Kg	ND	40
Naled	ug/Kg	ND	40
Parathion-ethyl	ug/Kg	ND	20
Parathion-methyl	ug/Kg	ND	20
Phorate	ug/Kg	ND	20
Ronnel	ug/Kg	ND	20
Stirophos	ug/Kg	ND	40
Sulfotep	ug/Kg	ND	20
Tokuthion (Prothiofos)	ug/Kg	ND	20
Trichloronate	ug/Kg	ND	20
PAHs (EPA 8310)			
Naphthalene	ug/Kg	ND	100
Acenaphthylene	ug/Kg	ND	500
Acenaphthene	ug/Kg	ND	100
Fluorene	ug/Kg	ND	20
Phenanthrene	ug/Kg	ND	10
Anthracene	ug/Kg	ND	10
Flouranthene	ug/Kg	29	20
Pyrene	ug/Kg	15	10
Benzo(a)anthracene	ug/Kg	12	10
Chrysene	ug/Kg	ND	10
Benzo(b)fluoranthene	ug/Kg	28	20
Benzo(k)fluoranthene	ug/Kg	ND	10
Benzo(a)pyrene	ug/Kg	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20
Benzo(ghi)perylene	ug/Kg	ND	20
Indeno(1,2,3-cd)pyrene	ug/Kg	ND	20
Moisture Content (EPA 160.3)			
Moisture Content	%	21	0.10
TEH-Kerosene/Diesel (DHS-LUFT)			
Kerosene C9-C18	mg/Kg	1.6	1.0
Diesel	mg/Kg	5.4	1.0

*Lab r hold time - Sample not analyzed

File: k ample Results SC\ContCore

2001 Sedimer moval Project -
Analytical Data f ediment Samples
Continuou re Samples

		AdobeCC01 (continuous)		BerryMilCC01 (continuous)		BerryMilCC02 (continuous)		BerryCropCC01 (continuous)		BerryPiedCC01 (continuous)		CalabazasCC01 (continuous)		CalabazasCC02 (continuous)		CalabazasCC03 (continuous)		CalabazasCC04 (continuous)		CalabazasCC05 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)																					
Total Organic Carbon	mg/Kg	24000	200	Not Analyzed		770	200	1600	200	1200	200	Not Analyzed		Not Analyzed		5900	200	Not Analyzed		Not Analyzed	
Chloride (EPA 325.2)																					
Chloride	mg/Kg	38	1.0	Not Analyzed		120.0	10	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		120	10	Not Analyzed		Not Analyzed	
pH (EPA 9045C)																					
		7.55	0.200	Not Analyzed		8.45	0.200	8.08	0.200	8.38	0.200	Not Analyzed		Not Analyzed		8.44	0.200	Not Analyzed		Not Analyzed	
Sulfide																					
	mg/Kg	ND	10	Not Analyzed		ND	10	ND	10	ND	10	Not Analyzed		Not Analyzed		ND	10	Not Analyzed		Not Analyzed	
Ammonia (EPA 350.1)																					
	mg/Kg	ND	2.0	Not Analyzed		ND	2.0	ND	2.0	ND	2.0	Not Analyzed		Not Analyzed		ND	2.0	Not Analyzed		Not Analyzed	
Chlorinated Herbicides (EPA 8151)																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)																					
Rodeo, Roundup (Glyphosate)	ug/g	ND	0.050	Not Analyzed		ND	0.050	ND	0.050	ND	0.050	Not Analyzed		Not Analyzed		ND	0.050	Not Analyzed		Not Analyzed	
Rodeo, Roundup (AMPA)		0.091	0.050	Not Analyzed		ND	0.050	ND	0.050	ND	0.050	Not Analyzed		Not Analyzed		ND	0.050	Not Analyzed		Not Analyzed	
Gallery (Isoxaben)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	1.000	Not Analyzed		Not Analyzed	
Surflan (Oryzalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar (Chlorsulfuron)		Not Analyzed		Not Analyzed		ND	0.100	ND	0.100	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum (Pendimethalin)		ND	1.000	Not Analyzed		ND	1.000	ND	1.000	ND	1.000	Not Analyzed		Not Analyzed		ND	1.000	Not Analyzed		Not Analyzed	

*Lab missed hold time - Sample not analyzed

Analytical Data for Sediment Samples
Continuous Core Samples

		CalabazasCC06 (continuous)		CalabazasCC07 (continuous)		CalabazasCC08 (continuous)		CaleraMilCC01 (continuous)		CaleraEscCC01 (continuous)		CanoasCC01 (continuous)		CoyoteCC01 (continuous)		FlintCC01 (continuous)		FlintCC02 (continuous)		FlintCC03 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)																					
Total Organic Carbon	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		*		7900	200	6600	200	3200	200	6000	200	Not Analyzed		Not Analyzed	
Chloride (EPA 325.2)																					
Chloride	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		380	10	Not Analyzed		Not Analyzed		Not Analyzed	
pH (EPA 9045C)																					
		Not Analyzed		Not Analyzed		Not Analyzed		7.40	0.200	7.94	0.200	8.44	0.200	8.26	0.200	8.25	0.200	Not Analyzed		Not Analyzed	
Sulfide																					
	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		120	10	ND	10	140	10	ND	10	ND	10	Not Analyzed		Not Analyzed	
Ammonia (EPA 350.1)																					
	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		ND	2.0	ND	2.0	2.8	2.0	ND	2.0	ND	2.0	Not Analyzed		Not Analyzed	
Chlorinated Herbicides (EPA 8151)																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)																					
Rodeo, Roundup (Glyphosate)	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		0.140	0.050	Not Analyzed		ND	0.050	Not Analyzed		Not Analyzed	
Rodeo, Roundup (AMPA)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		0.140	0.050	Not Analyzed		ND	0.050	Not Analyzed		Not Analyzed	
Gallery (Isoxaben)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Surflan (Oryzalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	5.000	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar (Chlorsulfuron)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	0.100	Not Analyzed		Not Analyzed	
Pendulum (Pendimethalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	1.000	ND	1.000	Not Analyzed		Not Analyzed	

*Lab m ' hold time - Sample not analyzed

Analytical Data ediment Samples
Continuo ore Samples

		FlintCC04		FlintCC05		GuadalupeCC01		GuadalupeCC02		GuadalupeCC03		LosCochesCC02		MataderoCC01		RandolCC01		RossCC01		RuckerCC01	
		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)																					
Total Organic Carbon	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		17000	200	12000	200	13000	200	13000	200	2200	200	2200	200
Chloride (EPA 325.2)																					
Chloride	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		12	1.0	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
pH (EPA 9045C)																					
		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		7.90	0.200	8.01	0.200	7.38	0.200	8.30	0.200	8.53	0.200	7.76	0.200
Sulfide																					
	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	10	ND	10	16	10	320	10	ND	10	ND	10
Ammonia (EPA 350.1)																					
	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	2.0	ND	2.0	4.3	2.0	3.4	2.0	ND	2.0	ND	2.0
Chlorinated Herbicides (EPA 8151)																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)																					
Rodeo, Roundup (Glyphosate)	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	0.050	ND	0.050	0.110	0.050	Not Analyzed		Not Analyzed		Not Analyzed	
Rodeo, Roundup (AMPA)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	0.050	0.097	0.050	0.089	0.050	Not Analyzed		Not Analyzed		Not Analyzed	
Gallery (Isoxaben)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	1.000	Not Analyzed		ND	1.000	Not Analyzed		Not Analyzed		Not Analyzed	
Surflan (Oryzalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	5.000	ND	5.000	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar (Chlorsulfuron)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum (Pendimethalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	1.000	Not Analyzed		Not Analyzed		Not Analyzed	

*Lab missed hold time - Sample not analyzed

Analytical Data for Sediment Samples
Continuous Core Samples

		SierraCC01 (continuous)	
Analyte	units	results	det. lim.
Total Organic Carbon (EPA 415.2)			
Total Organic Carbon	mg/Kg	3400	200
Chloride (EPA 325.2)			
Chloride	mg/Kg	Not Analyzed	
pH (EPA 9045C)			
		8.31	0.200
Sulfide			
	mg/Kg	ND	10
Ammonia (EPA 350.1)			
	mg/Kg	ND	2.0
Chlorinated Herbicides (EPA 8151)			
2,4-D	ug/Kg	Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed	
Dalapon	ug/Kg	Not Analyzed	
Dicamba	ug/Kg	Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed	
MCPA	ug/Kg	Not Analyzed	
MCPP	ug/Kg	Not Analyzed	
Herbicides (Various)			
Rodeo, Roundup (Glyphosate)	ug/g	Not Analyzed	
Rodeo, Roundup (AMPA)		Not Analyzed	
Gallery (Isoxaben)		Not Analyzed	
Surflan (Oryzalin)		Not Analyzed	
Telar (Chlorsulfuron)		Not Analyzed	
Pendulum (Pendimethalin)		Not Analyzed	

*Lab m hold time - Sample not analyzed

2001 Sedimer moval Project -
Analytical Data f ediment Samples
Compos Samples

		Adobe01A (comp A)		BerryMil01 (comp ABC)		BerryMil02 (comp ABC)		BerryCrop01 (comp ABC)		BerryPied01 (comp AB)		Calabazas01 (comp ABCD)		Calabazas02 (comp ABCD)		Calabazas03 (comp ABCD)		Calabazas04 (comp ABCD)		Calabazas05 (comp ABCD)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.6800	0.0038	0.0440	0.0040	0.0530	0.0043	0.1200	0.00380	0.1400	0.0039	0.0680	0.0035	0.0570	0.0041	0.0780	0.0039	0.0480	0.0040	0.0560	0.0041
Antimony	mg/Kg	ND	1.800	ND	1.800	ND	1.700	ND	1.700	ND	1.700	ND	1.900	ND	2.100	ND	2.100	ND	1.900	ND	1.900
Arsenic	mg/Kg	6.300	3.600	5.800	3.500	9.300	3.400	9.100	3.500	10.000	3.400	5.000	3.700	7.300	4.100	6.700	4.300	4.100	3.900	6.000	3.800
Barium	mg/Kg	86.000	4.500	130.000	4.400	88.000	4.300	97.000	4.300	140.000	4.200	110.000	4.600	130.000	5.200	120.000	5.300	110.000	4.900	93.000	4.800
Beryllium	mg/Kg	ND	0.450	ND	0.440	ND	0.430	ND	0.430	ND	0.420	ND	0.460	ND	0.520	ND	0.530	ND	0.490	ND	0.480
Cadmium	mg/Kg	ND	0.550	ND	0.530	ND	0.510	ND	0.520	ND	0.500	ND	0.560	ND	0.620	ND	0.640	ND	0.580	ND	0.580
Chromium	mg/Kg	87.000	5.500	41.000	5.300	30.000	5.100	44.000	5.200	37.000	5.000	56.000	5.600	59.000	6.200	56.000	6.400	59.000	5.800	39.000	5.800
Cobalt	mg/Kg	16.000	0.910	9.200	0.880	7.800	0.850	8.900	0.870	10.000	0.840	15.000	0.930	17.000	1.000	16.000	1.100	15.000	0.970	10.000	0.960
Copper	mg/Kg	31.000	1.800	14.000	1.800	19.000	1.700	28.000	1.700	24.000	1.700	26.000	1.900	27.000	2.100	27.000	2.100	23.000	1.900	19.000	1.900
Lead	mg/Kg	14.000	4.500	7.200	4.400	7.200	4.300	7.400	4.300	7.800	4.200	13.000	4.600	15.000	5.200	13.000	5.300	9.800	4.900	9.900	4.800
Molybdenum	mg/Kg	ND	0.910	ND	0.880	ND	0.850	ND	0.870	ND	0.840	ND	0.930	ND	1.000	ND	1.100	ND	0.970	ND	0.960
Nickel	mg/Kg	62.000	0.910	75.000	0.880	40.000	0.850	51.000	0.870	59.000	0.840	63.000	0.930	66.000	1.000	65.000	1.100	58.000	0.970	46.000	0.960
Selenium	mg/Kg	4.600	4.500	ND	4.400	ND	0.430	ND	4.300	ND	4.200	ND	4.600	ND	5.200	ND	5.300	ND	4.900	ND	4.800
Silver	mg/Kg	ND	1.400	ND	1.300	ND	1.300	ND	1.300	ND	1.300	ND	1.400	ND	1.500	ND	1.600	ND	1.500	ND	1.400
Thallium	mg/Kg	ND	1.600	ND	1.600	1.500	1.500	8.600	1.600	8.300	1.500	ND	1.700	ND	1.900	ND	1.900	ND	1.700	ND	1.700
Vanadium	mg/Kg	71.000	1.400	28.000	1.300	29.000	1.300	39.000	1.300	39.000	1.300	55.000	1.400	56.000	1.500	53.000	1.600	56.000	1.500	38.000	1.400
Zinc	mg/Kg	81.000	6.400	40.000	6.100	41.000	6.000	62.000	6.100	54.000	5.900	75.000	6.500	71.000	7.200	76.000	7.400	67.000	6.800	66.000	6.700
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Soluable Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Arsenic	ug/L	290.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	5300.0	200.0	9300.0	200.0	7100.0	200.0	7400.0	200.0	8400.00	200.0	9700.0	200.0	9300.0	200.0	9600.0	200.0	8000.0	200.0	8400.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Chromium	ug/L	740.0	20.0	210.0	20.0	170.0	20.0	260.0	20.0	230.00	20.0	200.0	20.0	190.0	20.0	190.0	20.0	190.0	20.0	260.0	20.0
Cobalt	ug/L	310.0	80.0	270.0	80.0	190.0	80.0	190.0	80.0	230.00	80.0	610.0	80.0	610.0	80.0	620.0	80.0	480.0	80.0	430.0	80.0
Copper	ug/L	ND	20.0	43.0	20.0	260.0	20.0	330.0	20.0	340.00	20.0	600.0	20.0	530.0	20.0	560.0	20.0	450.0	20.0	52.0	20.0
Lead	ug/L	ND	200.0	260.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	210.0	200.0	220.0	200.0	210.0	200.0	310.0	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	640.0	80.0	1100.0	80.0	610.0	80.0	1400.0	80.0	1200.00	80.0	920.0	80.0	910.0	80.0	880.0	80.0	760.0	80.0	710.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	860.0	200.0	340.0	200.0	ND	200.0	ND	200.0	ND	200.0	220.0	200.0	ND	200.0	200.0	200.0	ND	200.0	300.0	200.0
Vanadium	ug/L	860.0	80.0	470.0	80.0	280.0	80.0	170.0	80.0	180.00	80.0	520.0	80.0	470.0	80.0	460.0	80.0	370.0	80.0	540.0	80.0
Zinc	ug/L	3400.0	20.0	2200.0	20.0	1600.0	20.0	1400.0	20.0	1200.00	20.0	3900.0	20.0	3400.0	20.0	3700.0	20.0	3200.0	20.0	4300.0	20.0
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	2.0	ND	2.0
delta-BHC	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	200.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	3.2	2.0	4.0	2.0	ND	2.0	4.1	2.0
4,4-DDT	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	200.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	800.0	ND	80.0	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

*Lab missed hold time - Sample not analyzed

2001 Sediment Removal Project -
Analytical Data for Sediment Samples
Composite Samples

		Calabazas06 (comp ABCD)		**Calabazas07** (comp ABCD)		**Calabazas08** (comp AB)		**CaleraMil01** (comp A)		**CaleraEsc01** (comp A)		**Canoas01** (comp ABCD)		**Coyote01** (comp A)		**Guadalupe01** (comp ABCD)		**Guadalupe02** (comp ABCD)		**Guadalupe03** (comp AB)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.026	0.0035	0.0200	0.0042	0.0240	0.0035	0.0470	0.0044	ND	0.0044	0.180	0.0033	0.1300	0.0034	2.000	0.021	2.600	0.021	3.100	0.039
Antimony	mg/Kg	ND	2.0	ND	1.900	1.800	1.800	1.700	1.600	ND	1.600	ND	1.800	ND	1.800	ND	1.800	ND	1.700	ND	1.800
Arsenic	mg/Kg	5.200	4.1	ND	3.700	7.200	3.600	8.600	3.300	4.800	3.200	4.100	3.500	9.100	3.500	13.000	3.600	11.000	3.400	11.000	3.600
Barium	mg/Kg	72.000	5.1	39.000	4.700	80.000	4.500	160.000	4.100	120.000	4.000	120.000	4.400	88.000	4.400	120.000	4.500	120.000	4.300	160.000	4.500
Beryllium	mg/Kg	ND	0.51	ND	0.470	ND	0.450	ND	0.410	ND	0.400	ND	0.440	ND	0.440	ND	0.450	ND	0.430	ND	0.450
Cadmium	mg/Kg	ND	0.61	ND	0.560	ND	0.550	ND	0.490	ND	0.480	ND	0.530	ND	0.530	ND	0.540	ND	0.520	0.800	0.540
Chromium	mg/Kg	61.000	6.1	31.000	5.600	84.000	5.500	37.000	4.900	28.000	4.800	78.000	5.300	47.000	5.300	65.000	5.400	61.000	5.200	77.000	5.400
Cobalt	mg/Kg	12.000	1.0	7.600	0.930	14.000	0.910	8.700	0.810	7.000	0.800	18.000	0.880	8.700	0.880	13.000	0.900	14.000	0.860	16.000	0.900
Copper	mg/Kg	20.000	2.0	11.000	1.900	34.000	1.800	17.000	1.600	13.000	1.600	29.000	1.800	23.000	1.800	29.000	1.800	30.000	1.700	49.000	1.800
Lead	mg/Kg	6.500	5.1	4.800	4.700	6.400	4.500	7.700	4.100	4.600	4.000	29.000	4.400	16.000	4.400	20.000	4.500	25.000	4.300	58.000	4.500
Molybdenum	mg/Kg	ND	1.0	ND	0.930	ND	0.910	ND	0.810	ND	0.800	ND	0.880	ND	0.880	ND	0.900	ND	0.860	ND	0.900
Nickel	mg/Kg	48.000	1.0	36.000	0.930	65.000	0.910	46.000	0.810	35.000	0.800	110.000	0.880	56.000	0.880	86.000	0.900	86.000	0.860	110.000	0.900
Selenium	mg/Kg	ND	5.1	ND	4.700	ND	4.500	ND	4.100	ND	4.000	ND	4.400	ND	4.400	ND	4.500	ND	4.300	ND	4.500
Silver	mg/Kg	ND	1.5	ND	1.400	ND	1.400	ND	1.200	ND	1.200	ND	1.300	ND	1.300	ND	1.400	ND	1.300	ND	1.400
Thallium	mg/Kg	ND	1.8	ND	1.700	ND	1.600	ND	1.500	ND	1.400	5.500	1.600	6.200	1.600	6.100	1.600	4.300	1.600	4.700	1.600
Vanadium	mg/Kg	54.000	1.5	31.000	1.400	61.000	1.400	33.000	1.200	27.000	1.200	30.000	1.300	31.000	1.300	41.000	1.400	44.000	1.300	48.000	1.400
Zinc	mg/Kg	54.000	7.1	33.000	6.500	59.000	6.400	47.000	5.700	35.000	5.600	150.000	6.100	72.000	6.100	72.000	6.300	74.000	6.000	160.000	6.300
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		2.898	0.070	0.217	0.070	1.066	0.070	1.307	0.070
Soluable Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.00	ND	1.0	ND	1.0	ND	1.0	ND	1.00
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.00	ND	200.0	ND	200.0	ND	200.0	ND	200.00
Arsenic	ug/L	310.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.00	ND	200.0	ND	200.0	ND	200.0	880.0	200.00
Barium	ug/L	5300.0	200.0	5700.0	200.0	5000.0	200.0	12000.0	200.0	8100.0	200.0	8200.0	200.00	7300.0	200.0	8600.0	200.0	8200.0	200.0	11000.0	200.00
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.00	ND	20.0	ND	20.0	ND	20.0	ND	20.00
Cadmium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.00	ND	20.0	ND	20.0	ND	20.0	49.0	20.00
Chromium	ug/L	110.0	20.0	97.0	20.0	92.0	20.0	110.0	20.0	68.0	20.0	890.0	20.00	340.0	20.0	290.0	20.0	390.0	20.0	770.0	20.00
Cobalt	ug/L	160.0	80.0	150.0	80.0	120.0	80.0	280.0	80.0	200.0	80.0	670.0	80.00	310.0	80.0	440.0	80.0	510.0	80.0	660.0	80.00
Copper	ug/L	120.0	20.0	110.0	20.0	94.0	20.0	270.0	20.0	240.0	20.0	20.0	20.00	ND	20.0	470.0	20.0	660.0	20.0	1600.0	20.00
Lead	ug/L	ND	200.0	ND	200.0	ND	200.0	300.0	200.0	ND	200.0	730.0	200.00	750.0	200.0	450.0	200.0	640.0	200.0	2500.0	200.00
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.00	ND	80.0	ND	80.0	ND	80.0	ND	80.00
Nickel	ug/L	310.0	80.0	320.0	80.0	240.0	80.0	590.0	80.0	390.0	80.0	2500.0	80.00	800.0	80.0	1200.0	80.0	1500.0	80.0	2300.0	80.00
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.00	ND	200.0	ND	200.0	ND	200.0	ND	200.00
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.00	ND	20.0	ND	20.0	ND	20.0	ND	20.00
Thallium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	230.0	200.0	660.0	200.00	680.0	200.0	250.0	200.0	350.0	200.0	510.0	200.00
Vanadium	ug/L	170.00	80.0	150.0	80.0	120.0	80.0	400.0	80.0	320.0	80.0	570.0	80.00	360.0	80.0	360.0	80.0	440.0	80.0	750.0	80.00
Zinc	ug/L	1700.00	20.0	1700.0	20.0	1400.0	20.0	3300.0	20.0	1500.0	20.0	11000.0	20.00	3400.0	20.0	1700.0	20.0	2400.0	20.0	9000.0	20.00
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	3.0	16	2.0	6.6	2.0	11	2.0
4,4-DDT	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	19	6.0	7.7	6.0	ND	6.0
Dieldrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	4.0
Endosulfan I	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	8.0	1.0
Methoxychlor	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

*Lab mi old time - Sample not analyzed

2001 Sedimen moval Project -
Analytical Data f ediment Samples
Compo Samples

		LosCoches01		Matadero01		Randol01		Ross01		Rucker01		Sierra01	
		(comp AB)		(comp ABCD)		(comp A)		(comp A)		(comp A)		(comp A)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC													
Mercury	mg/Kg	0.0500	0.0046	0.0670	0.0036	1.800	0.018	0.0260	0.0036	0.0240	0.0041	0.0220	0.0036
Antimony	mg/Kg	ND	1.700	ND	1.800	1.800	1.700	ND	1.800	ND	1.800	ND	1.800
Arsenic	mg/Kg	7.200	3.400	6.200	3.600	8.600	3.400	7.200	3.600	8.100	3.600	ND	3.500
Barium	mg/Kg	98.000	4.200	92.000	4.500	83.000	4.300	79.000	4.500	110.000	4.500	55.000	4.400
Beryllium	mg/Kg	ND	0.420	ND	0.450	ND	0.430	ND	0.450	ND	0.450	ND	0.440
Cadmium	mg/Kg	0.510	0.510	ND	0.550	ND	0.510	0.540	0.540	ND	0.540	ND	0.530
Chromium	mg/Kg	27.000	5.100	51.000	5.500	350.000	5.100	45.000	5.400	34.000	5.400	370.000	5.300
Cobalt	mg/Kg	9.800	0.850	12.000	0.910	29.000	0.850	14.000	0.890	7.500	0.890	21.000	0.880
Copper	mg/Kg	13.000	1.700	20.000	1.800	22.000	1.700	20.000	1.800	17.000	1.800	12.000	1.800
Lead	mg/Kg	6.000	4.200	17.000	4.500	15.000	4.300	15.000	4.500	10.000	4.500	ND	4.400
Molybdenum	mg/Kg	ND	0.850	ND	0.910	ND	0.850	ND	0.890	ND	0.890	ND	0.880
Nickel	mg/Kg	43.000	0.850	53.000	0.910	410.000	0.850	68.000	0.890	27.000	0.890	540.000	0.880
Selenium	mg/Kg	ND	4.200	ND	4.500	ND	4.300	ND	4.500	ND	4.500	ND	4.400
Silver	mg/Kg	ND	1.300	ND	1.400	ND	1.300	ND	1.300	ND	1.300	ND	1.300
Thallium	mg/Kg	ND	1.500	ND	1.600	13.000	1.500	2.100	1.600	2.000	1.600	6.300	1.600
Vanadium	mg/Kg	27.000	1.300	40.000	1.400	45.000	1.300	51.000	1.300	28.000	1.300	22.000	1.300
Zinc	mg/Kg	34.000	5.900	64.000	6.400	90.000	6.000	100.000	6.200	40.000	6.200	43.000	6.200
Methyl Mercury, (EPA 1630 Modified)													
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		0.225	0.070	Not Analyzed		Not Analyzed		Not Analyzed	
Soluable Metals, STLC													
Mercury	ug/L	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.00	ND	200.00	ND	200.00	ND	200.00	ND	200.0	ND	200.0
Arsenic	ug/L	350.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	7600.0	200.0	5900.0	200.0	6100.0	200.0	6000.0	200.0	11000.0	200.0	7200.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	25.0	20.0
Chromium	ug/L	78.0	20.0	930.0	20.0	1800.0	20.0	610.0	20.0	73.0	20.0	230.0	20.0
Cobalt	ug/L	230.0	80.0	360.0	80.0	1300.0	80.0	340.0	80.0	540.0	80.0	190.0	80.0
Copper	ug/L	110.0	20.0	24.0	20.0	240.0	20.0	130.0	20.0	190.0	20.0	220.0	20.0
Lead	ug/L	ND	200.0	250.0	200.0	270.0	200.0	370.0	200.0	220.0	200.0	ND	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	490.0	80.0	1100.0	80.0	6300.0	80.0	1300.0	80.0	450.0	80.0	950.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	ND	200.0	690.0	200.0	870.0	200.0	330.0	200.0	ND	200.0	ND	200.0
Vanadium	ug/L	210.0	80.0	970.0	80.0	650.0	80.0	350.0	80.0	330.0	80.0	140.0	80.0
Zinc	ug/L	1400.0	20.0	4000.0	20.0	4900.0	20.0	4000.0	20.0	870.0	20.0	1700.0	20.0
Pesticides (EPA 8081)													
Aldrin	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
4,4-DDT	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	80.0	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

*Lab missed hold time - Sample not analyzed

2001 Sediment Removal Project -
Analytical Data for Sediment Samples
Composite Samples

		Adobe01A (comp A)		BerryMil01 (comp ABC)		BerryMil02 (comp ABC)		BerryCrop01 (comp ABC)		BerryPied01 (comp AB)		Calabazas01 (comp ABCD)		Calabazas02 (comp ABCD)		Calabazas03 (comp ABCD)		Calabazas04 (comp ABCD)		Calabazas05 (comp ABCD)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
PCBs (8082)																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Organophosphorous Comp. (EPA 8141)																					
Azinphos-methyl	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Bolstar	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Chloropyrifos	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Coumaphos	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Demeton	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Diazanon	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Dichlorvos	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Disulfoton	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Ethion	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Ethoprop	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
EPN	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Fensulfothion	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Fenthion	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Malathion	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Merphos	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Mevinphos	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Monocrotophos	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Naled	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Parathion-ethyl	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Parathion-methyl	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Phorate	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Ronnel	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Stirophos	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Sulfotep	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Trichloronate	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
PAHs (EPA 8310)																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	66.0	10	23	10	ND	10	ND	10	ND	10	40	10	170	10	30	10	19	10	47	10
Anthracene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	15	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	180.0	20	98	20	ND	20	ND	20	ND	20	110	20	300	20	83	20	54	20	150	20
Pyrene	ug/Kg	140.0	10	76	10	ND	10	ND	10	ND	10	110	10	260	10	73	10	47	10	130	10
Benzo(a)anthracene	ug/Kg	56.0	10	28	10	ND	10	ND	10	ND	10	29	10	71	10	22	10	12	10	37	10
Chrysene	ug/Kg	85.0	10	59	10	ND	10	ND	10	ND	10	63	10	110	10	53	10	36	10	74	10
Benzo(b)fluoranthene	ug/Kg	80.0	20	64	20	26	20	ND	20	ND	20	75	20	91	20	60	20	38	20	100	20
Benzo(k)fluoranthene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	46	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	55	10	96	10	45	10	25	10	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	76.0	20	57	20	ND	20	ND	20	ND	20	76	20	84	20	49	20	24	20	70	20
Indeno(1,2,3-cd)pyrene	ug/Kg	90.0	20	ND	20	ND	20	ND	20	ND	20	49	20	62	20	51	20	40	20	ND	20
Moisture Content (EPA 160.3)																					
Moisture Content	%	42.0	0.10	27.0	0.10	9.7	0.10	4.2	0.10	2.9	0.10	87	0.10	83	0.10	89	0.10	92	0.10	76	0.10
TEH-Kerosene/Diesel (DHS-LUFT)																					
Kerosene C9-C18	mg/Kg	30	10	1.5	1.0	4.8	1.0	3.5	1.0	5.8	1.0	2.6	1.0	2.9	1.0	3.2	1.0	2.4	1.0	5.6	1.0
Diesel	mg/Kg	150.0	10	9.3	1.0	22.0	1.0	7.2	1.0	9.2	1.0	19.0	1.0	20.0	1.0	21.0	1.0	16.0	1.0	39.0	1.0

*Lab m old time - Sample not analyzed
File: ks. mple Results SC\Comps

2001 Sedimen noval Project -
Analytical Data f ediment Samples
Composite Samples

Analyte	units	Calabazas06 (comp ABCD)		Calabazas07 (comp ABCD)		Calabazas08 (comp AB)		CaleraMil01 (comp A)		CaleraEsc01 (comp A)		Canoas01 (comp ABCD)		Coyote01 (comp A)		Guadalupe01 (comp ABCD)		Guadalupe02 (comp ABCD)		Guadalupe03 (comp AB)	
		results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
PCBs (8082)																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Organophosphorous Comp. (EPA 8141)																					
Azinphos-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Bolstar	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Chloropyrifos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Coumaphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Demeton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Diazanon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Dichlorvos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Disulfoton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Ethion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Ethoprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
EPN	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Fensulfothion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Fenthion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Malathion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Merphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Mevinphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Monocrotophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Naled	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Parathion-ethyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Parathion-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Phorate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Ronnel	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Stirophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Sulfotep	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Trichloronate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
PAHs (EPA 8310)																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	39	10	16	10	ND	10	ND	10	ND	10	130	10	ND	10	33	10	120	10	150	10
Anthracene	ug/Kg	10	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	30	10	ND	10
Flouranthene	ug/Kg	200	20	38	20	ND	20	ND	20	ND	20	330	20	ND	20	66	20	270	20	390	20
Pyrene	ug/Kg	160	10	39	10	ND	10	ND	10	ND	10	290	10	15	10	77	10	290	10	350	10
Benzo(a)anthracene	ug/Kg	74	10	16	10	ND	10	ND	10	ND	10	94	10	ND	10	26	10	120	10	93	10
Chrysene	ug/Kg	100	10	23	10	ND	10	ND	10	ND	10	150	10	ND	10	42	10	150	10	180	10
Benzo(b)fluoranthene	ug/Kg	110	20	ND	20	ND	20	ND	20	ND	20	170	20	ND	20	38	20	100	20	220	20
Benzo(k)fluoranthene	ug/Kg	52	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	18	10	49	10	91	10
Benzo(a)pyrene	ug/Kg	120	10	22	10	ND	10	ND	10	ND	10	150	10	12	10	45	10	130	10	190	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	100	20	ND	20	ND	20	ND	20	ND	20	200	20	ND	20	49	20	110	20	250	20
Indeno(1,2,3-cd)pyrene	ug/Kg	86	20	ND	20	ND	20	ND	20	ND	20	47	20	ND	20	52	20	120	20	260	20
Moisture Content (EPA 160.3)																					
Moisture Content	%	87	0.10	90	0.10	94	0.10	28	0.10	18	0.10	27	0.10	20	0.10	8.7	0.10	16	0.10	12	0.10
TEH-Kerosene/Diesel (DHS-LUFT)																					
Kerosene C9-C18	mg/Kg	1.5	1.0	ND	1.0	ND	1.0	1.6	1.0	2.2	1.0	31	4.0	1.1	1.0	5.7	1.0	4.5	1.0	9.3	1.0
Diesel	mg/Kg	11.0	1.0	6.0	1.0	6.2	1.0	14.0	1.0	4.9	1.0	150.0	4.0	5.6	1.0	15.0	1.0	21.0	1.0	47.0	1.0

*Lab missed hold time - Sample not analyzed

2001 Sediment Removal Project -
Analytical Data for Sediment Samples
Composite Samples

		LosCoches01		**Matadero01**		**Randol01**		**Ross01**		**Rucker01**		**Sierra01**	
		(comp AB)		(comp ABCD)		(comp A)		(comp A)		(comp A)		(comp A)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
PCBs (8082)													
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Organophosphorous Comp. (EPA 8141)													
Azinphos-methyl	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Bolstar	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Chloropyrifos	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Coumaphos	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Demeton	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Diazanon	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Dichlorvos	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Disulfoton	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Ethion	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Ethoprop	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
EPN	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Fensulfothion	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Fenthion	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Malathion	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Merphos	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Mevinphos	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Monocrotophos	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Naled	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Parathion-ethyl	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Parathion-methyl	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Phorate	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Ronnel	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Stirophos	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Sulfotep	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Tokuthion (Prothiofos)	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Trichloronate	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
PAHs (EPA 8310)													
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	ND	10	310	10	ND	10	ND	10	ND	10	ND	10
Anthracene	ug/Kg	ND	10	32	10	ND	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	ND	20	770	20	ND	20	ND	20	ND	20	ND	20
Pyrene	ug/Kg	ND	10	650	20	ND	10	ND	10	ND	10	ND	10
Benzo(a)anthracene	ug/Kg	ND	10	200	10	ND	10	ND	10	ND	10	ND	10
Chrysene	ug/Kg	ND	10	360	10	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	ug/Kg	ND	20	360	20	ND	20	ND	20	ND	20	ND	20
Benzo(k)fluoranthene	ug/Kg	ND	10	230	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	ug/Kg	ND	10	430	20	ND	10	19	10	ND	10	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	ND	20	270	20	ND	20	ND	20	ND	20	ND	20
Indeno(1,2,3-cd)pyrene	ug/Kg	ND	20	250	20	ND	20	ND	20	ND	20	ND	20
Moisture Content (EPA 160.3)													
Moisture Content	%	20	0.10	31	0.10	18	0.10	7.1	0.10	16	0.10	20	0.10
TEH-Kerosene/Diesel (DHS-LUFT)													
Kerosene C9-C18	mg/Kg	3.4	1.0	4.2	1.0	2.6	1.0	ND	1.0	1.1	1.0	1.1	1.0
Diesel	mg/Kg	10.0	1.0	37.0	1.0	11.0	1.0	3.6	1.0	2.7	1.0	5.5	1.0

*Lab m' hold time - Sample not analyzed
File: k ample Results SC\Comps

2001 Sedimen noval Project -
Analytical Data f ediment Samples
Composite Samples

		Adobe01A (comp A)		BerryMil01 (comp ABC)		BerryMil02 (comp ABC)		BerryCrop01 (comp ABC)		BerryPied01 (comp AB)		Calabazas01 (comp ABCD)		Calabazas02 (comp ABCD)		Calabazas03 (comp ABCD)		Calabazas04 (comp ABCD)		Calabazas05 (comp ABCD)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)																					
Total Organic Carbon	mg/Kg	18000	200	7600	200	2300	200	ND	200	2000	200	13000	200	12000	200	10000	200	6800	200	10000	200
Chloride (EPA 325.2)																					
Chloride	mg/Kg	35.0	1.0	230.0	10	110.0	10	Not Analyzed		Not Analyzed		120	10	150	10	92	10	120	10	130	10
pH (EPA 9045C)																					
		7.70	0.200	7.93	0.200	8.98	0.200	8.70	0.200	8.08	0.200	8.10	0.200	8.10	0.200	8.15	0.200	8.12	0.200	7.80	0.200
Sulfide																					
	mg/Kg	64	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Ammonia (EPA 350.1)																					
	mg/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Chlorinated Herbicides (EPA 8151)																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)																					
Rodeo, Roundup	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
AMPA		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Gallery		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Surflan		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	

*Lab missed hold time - Sample not analyzed

2001 Sediment Removal Project -
Analytical Data for Sediment Samples
Composite Samples

		Calabazas06		Calabazas07		Calabazas08		CaleraMil01		CaleraEsc01		Canoas01		Coyote01		Guadalupe01		Guadalupe02		Guadalupe03	
		(comp ABCD)		(comp ABCD)		(comp AB)		(comp A)		(comp A)		(comp ABCD)		(comp A)		(comp ABCD)		(comp ABCD)		(comp AB)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)																					
Total Organic Carbon	mg/Kg	2200	200	2500	200	2500	200	*		13000	200	22000	200	12000	200	9100	200	9500	200	23000	200
Chloride (EPA 325.2)																					
Chloride	mg/Kg	200	10	130	10	79	10	Not Analyzed		Not Analyzed		Not Analyzed		41	1.0	180	10	170	10	7.1	1.0
pH (EPA 9045C)																					
		8.51	0.200	9.21	0.200	9.34	0.200	8.18	0.200	8.38	0.200	7.92	0.200	8.38	0.200	8.17	0.200	7.98	0.200	7.90	0.200
Sulfide																					
	mg/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Ammonia (EPA 350.1)																					
	mg/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	21	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Chlorinated Herbicides (EPA 8151)																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)																					
Rodeo, Roundup	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
AMPA		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Gallery		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Surflan		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	

*Lab mis hold time - Sample not analyzed

2001 Sedimen noval Project -
Analytical Data f diment Samples
Composi Samples

		LosCoches01		Matadero01		Randol01		Ross01		Rucker01		Sierra01	
		(comp AB)		(comp ABCD)		(comp A)		(comp A)		(comp A)		(comp A)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)													
Total Organic Carbon	mg/Kg	2300	200	13000	200	9300	200	1600	200	4000	200	2000	200
Chloride (EPA 325.2)													
Chloride	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
pH (EPA 9045C)													
		8.08	0.200	7.63	0.200	8.17	0.200	8.46	0.200	7.93	0.200	8.45	0.200
Sulfide													
	mg/Kg	ND	10	ND	10	160	10	ND	10	ND	10	ND	10
Ammonia (EPA 350.1)													
	mg/Kg	ND	2.0	10	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Chlorinated Herbicides (EPA 8151)													
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)													
Rodeo, Roundup	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
AMPA		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Gallery		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Surflan		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	

*Lab missed hold time - Sample not analyzed

APPENDIX B

E T S

1343 Redwood Way
Petaluma, CA 94954
(707) 795-9605/FAX 795-9384

Environmental
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SITE LOCATION: Adobe; California

DATE COLLECTED	DATE RECEIVED	DATE of REPORT	ANALYST(S)	SUPERVISOR
6/6/01	6/13/01	7/3/01	S. Banwait R. Conrad J. Nelson	D. Jacobson LAB DIRECTOR G.Conrad PhD

01Adobe01 01Adobe CC01

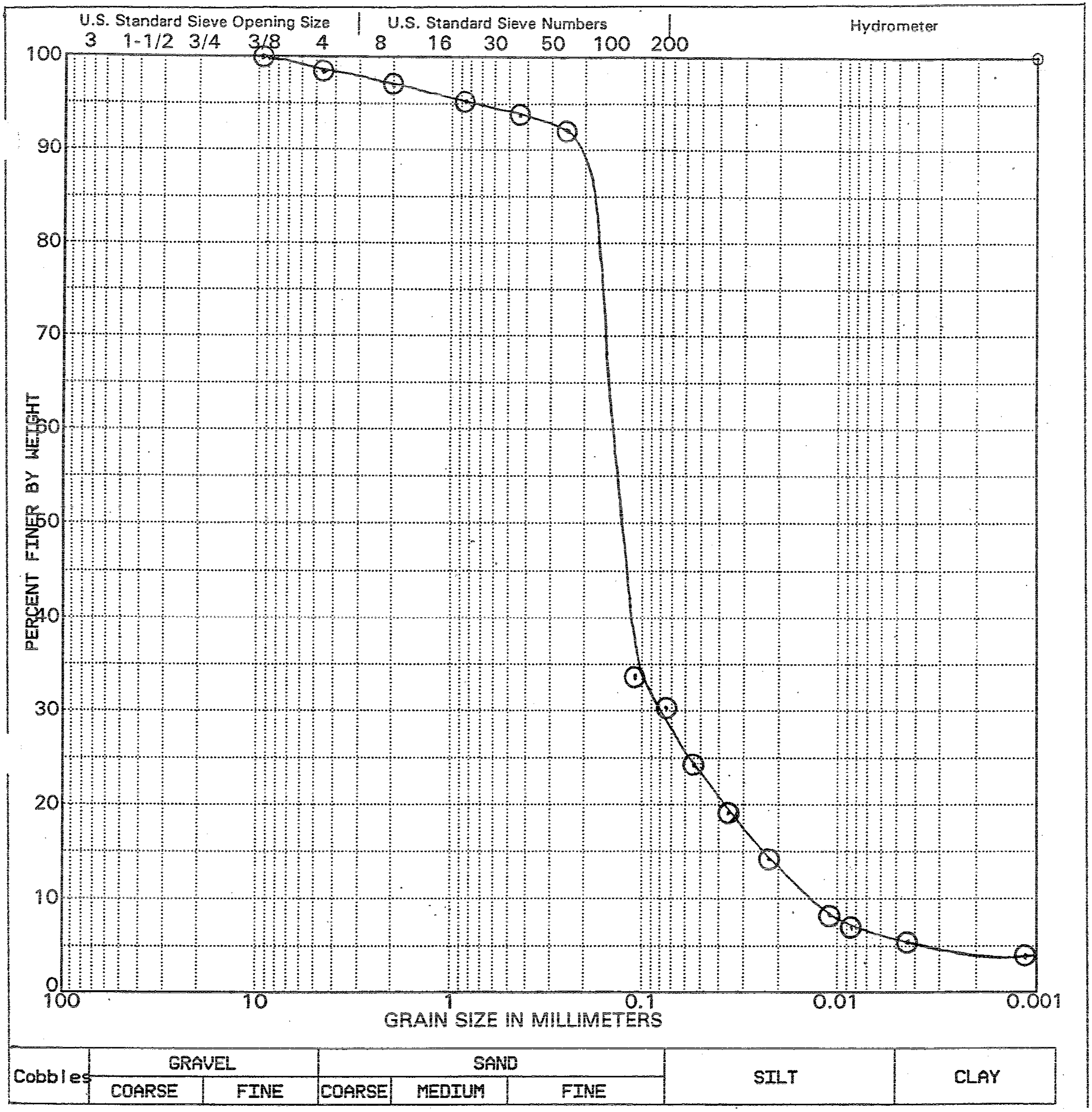
HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0143	SAMPLE ID:	MKF0118-01		LAB NUMBER: 01-06-0144	SAMPLE ID:	MKF0118-03	
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel		100.00	0.00	Coarse Gravel
3/8" Sieve		100.00	0.00	Fine Gravel		75.60	0.00	Fine Gravel
Sieve #4		98.18	1.82			59.29	4.95	
Sieve #10		97.03	1.15	Coarse Sand		28.53	2.68	Coarse Sand
Sieve #20		95.35	1.68	Medium Sand		9.40	2.73	Medium Sand
eve #40		93.79	1.56			2.13	2.88	
Sieve #60		92.39	1.40	Fine Sand		0.33	12.84	Fine Sand
Sieve #140		33.98	58.41			0.12	50.39	
Sieve #200		30.17	3.81			0.08	6.84	
SILT (0.074)	√ 24.51			SILT (0.074)	√ 13.82			Mud
		Grvl Total->	*1.82*			*Grvl Total->*	*4.95*	
CLAY (0.005)	5.66	*Sand Total->*	*68.01*	CLAY (0.005)	2.87	*Sand Total->*	*78.36*	(Silt & Clay)
		Fines Total->	*30.17*			*Fines Total->*	*16.69*	
		Sum Total->	*100.00*			*Sum Total->*	*100.00*	

COMMENTS

Both of these samples not only classify as silty sand, but are very similar overall as well with relatively small differences in totals for the various textural classes. Nevertheless, the small differences are enough to result in a difference in classification in one system (i.e., sandy loam versus loamy sand). Even so, it appears both samples probably represent sand bar type deposits with relatively small displacement in lateral and/or vertical position within the depositional sequence. The flow regime is very similar but not exactly the same; probably both represent moderate, more or less consistent flows and energies. Note that the majority of each sample is fine sand, about 70%; and of this the mid-range fine sand (i.e., #140 sieve) is the vast majority.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet eved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total ------------>	1.82
3/8"	0.00	Coarse Sand ---->	1.15
#4	1.82	Medium Sand ---->	3.24
#10	1.15	Fine Sand ------>	63.62
#20	1.68	Sand Total -------------->	68.01
#40	1.56	Silt ------------>	24.51
#60	1.40	Clay ------------>	5.66
#140	58.41	Fines Total ------------->	30.17
#200	3.81	Grand Total ------------->	100.00

ASTM CLASSIFICATION

Brown Silty Sand
(SM)

USDA CLASSIFICATION
Sandy Loam

SAMPLE ID: MKF0118-01 CLIENT: Sequoia Analytical
01 Adobe 01
PROJECT ID: MKF0118 - Adobe DATE: 7/03/01

PLATE 1

PARTICLE SIZE ANALYSIS

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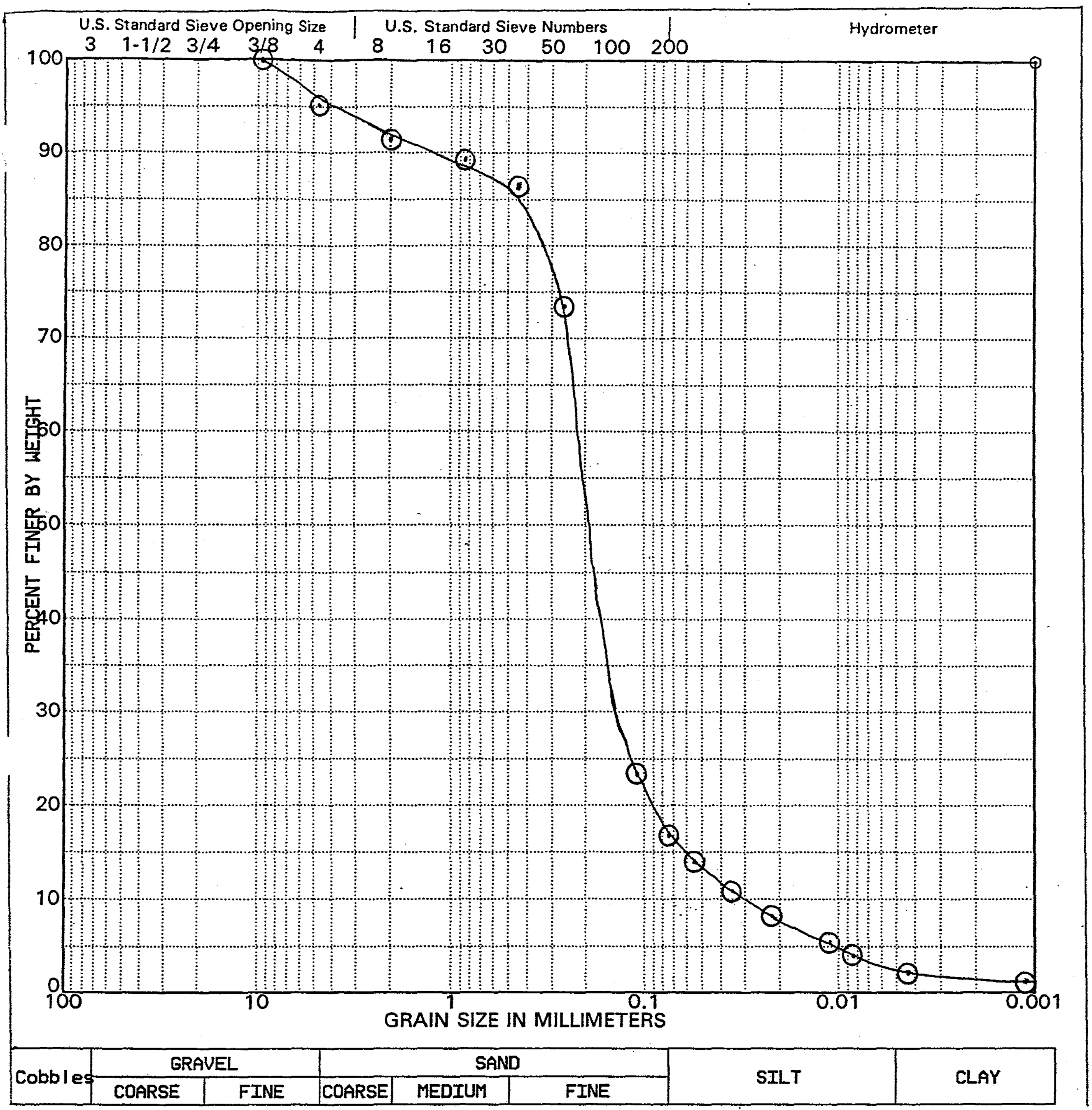

SIEVE #	% FRACTION
3/4"	0.00
3/8"	0.00
#4	4.95
#10	2.68
#20	2.73
#40	2.88
#60	12.84
#140	50.39
#200	6.84

TEXTURAL CLASSES & PERCENTAGES	
Gravel Total ------------>	4.95
Coarse Sand ---->	2.68
Medium Sand ---->	5.61
Fine Sand ------>	70.07
Sand Total -------------->	78.36
Silt ------------>	13.82
Clay ------------>	2.87
Fines Total ------------->	16.69
Grand Total ------------->	100.00

ASTM CLASSIFICATION

Brown Silty Sand
(SM)

USDA CLASSIFICATION

Loamy Sand

E
T
S

SAMPLE ID: MKF0118-03 CLIENT: Sequoia Analytical

01Adobecc01

PROJECT ID: MKF0118 - Adobe DATE: 7/03/01

PLATE 2

PARTICLE SIZE ANALYSIS

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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037				ANALYST(S)	SUPERVISOR
ATTN: Jeff Smyly	DATE COLLECTED	DATE RECEIVED	DATE of REPORT	S. Banwait	D. Jacobson
SITE LOCATION: BerryCrop; California				R. Conrad	LAB DIRECTOR
	6/8/01	7/6/01	7/18/01	J. Nelson	G.Conrad PhD

01 BerryCrop01 01 BerryCrop CC01

HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-07-0036	SAMPLE ID:	MKF0268-05		LAB NUMBER: 01-07-0037	SAMPLE ID:	MKF0268-06	
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM
3/4" Sieve		98.07	1.93	Coarse Gravel		70.34	29.66	Coarse Gravel
3/8" Sieve		78.38	19.69	Fine Gravel		48.31	22.03	Fine Gravel
Sieve #4		62.14	16.24			35.94	12.37	
Sieve #10		36.70	25.44	Coarse Sand		23.82	12.12	Coarse Sand
Sieve #20		23.39	13.31	Medium Sand		16.26	7.56	Medium Sand
ieve #40		16.40	6.99			11.43	4.83	
Sieve #60		12.09	4.31	Fine Sand		7.46	3.97	Fine Sand
Sieve #140		8.73	3.36			3.57	3.81	
Sieve #200		8.26	0.47			2.97	0.60	
MUD (Silt & Clay)	√ 8.26	*Grvl Total->* *Sand Total->* *Fines Total->* *Sum Total->*	*37.86* *53.88* *8.26* *100.00*	MUD (Silt & Clay)	√ 2.97	*Grvl Total->* *Sand Total->* *Fines Total->* *Sum Total->*	*64.06* *32.97* *2.97* *100.00*	Mud (Silt & Clay)

************************************ COMMENTS ************************************

These samples are either sand with gravel or vice versa; in one (-05) sand dominates, and in the other gravel dominates - notice the mud is very low to nil. Both represent moderate to high energy flow regimes with the dominant regime being moderate in one (-05), and (the low end of) high in the other (-06). The sandier sample may represent mid-level sand bar, while other could be lower sand bar and/or upstream bar deposit.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet ved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.

♲

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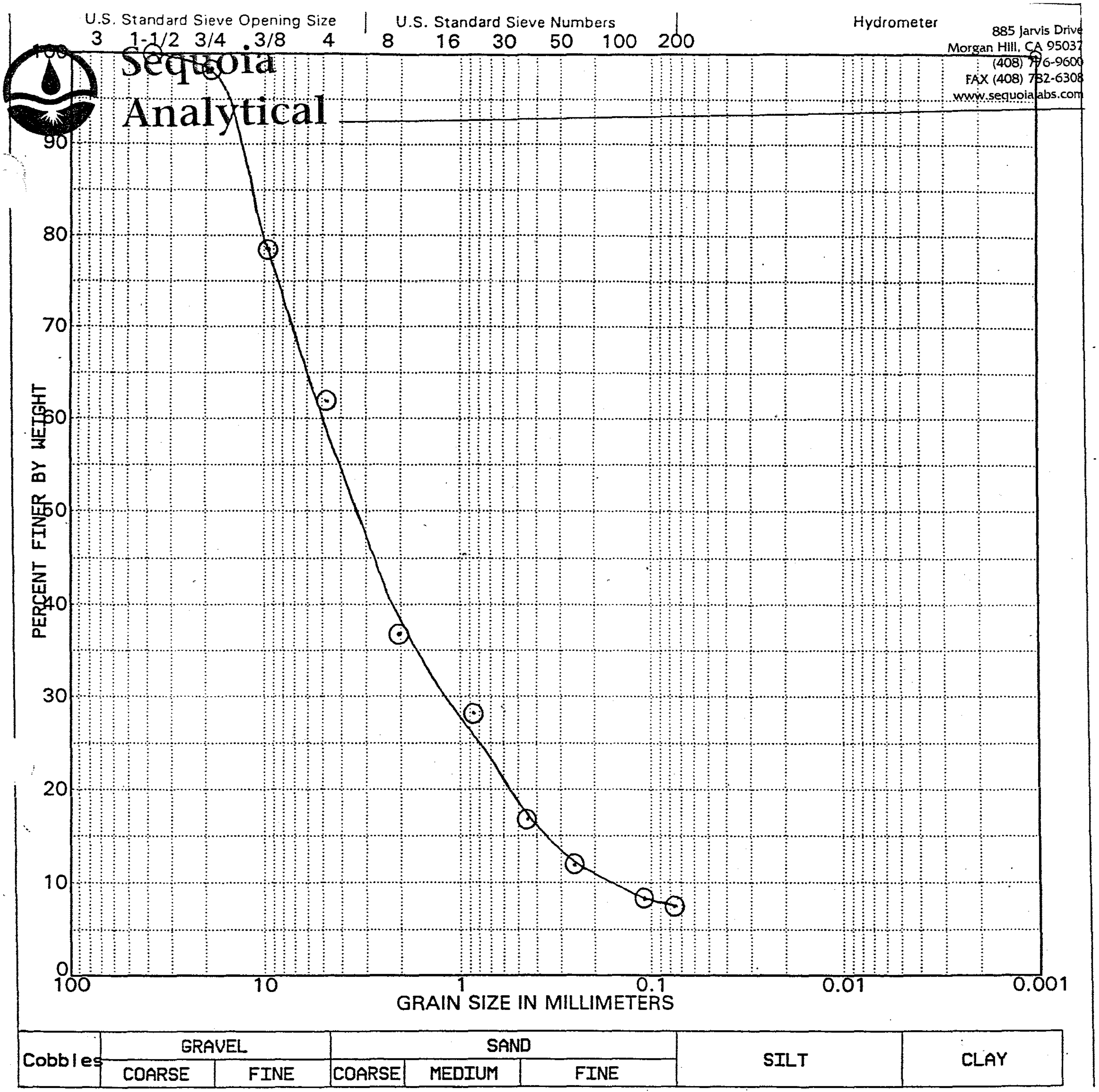

SIEVE #	% FRACTION
3/4"	1.93
3/8"	19.69
#4	16.24
#10	25.44
#20	13.31
#40	6.99
#60	4.31
#140	3.36
#200	0.47

TEXTURAL CLASSES & PERCENTAGES	
Gravel Total ----------->	37.86
Coarse Sand ---->	25.44
Medium Sand ---->	20.30
Fine Sand ------>	8.14
Sand Total ------------->	53.88
Silt ----------->	-.--
Clay ----------->	-.--
Fines Total ------------>	8.26
Grand Total ------------>	100.00

ASTM CLASSIFICATION

Gray Sand w/ silt and gravel (SP-SM)

USDA CLASSIFICATION

Loamy Sand

SAMPLE ID: MKF0268-05 CLIENT: Sequoia Analytical

01 Berry Crop 01

PROJECT ID: MKF0268 - BerryCrop DATE: 7/18/01

PLATE 3

PARTICLE SIZE ANALYSIS

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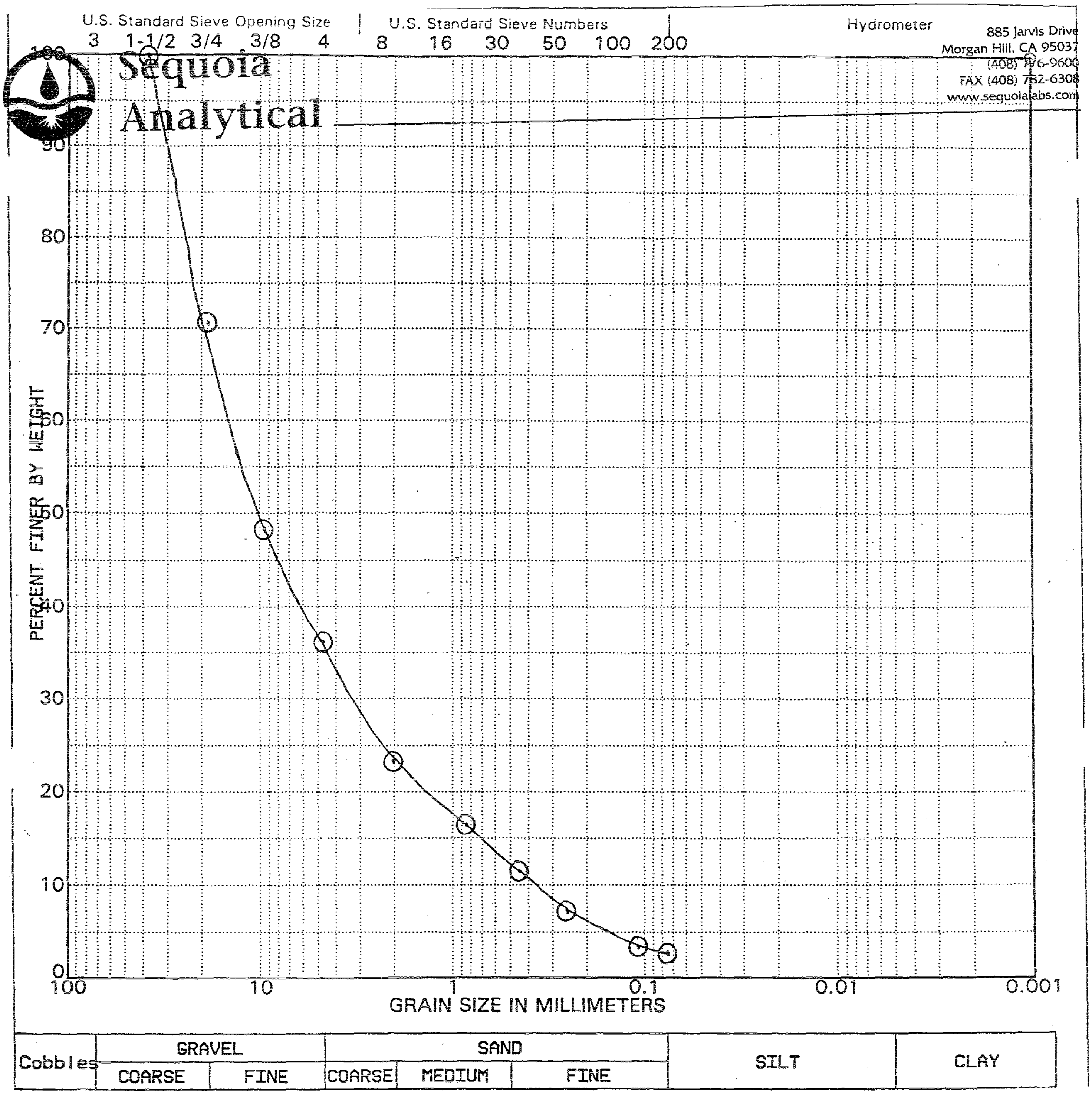

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	29.66	Gravel Total ----------->	64.06
3/8"	22.03	Coarse Sand ---->	12.12
#4	12.37	Medium Sand ---->	12.39
#10	12.12	Fine Sand ------>	8.46
#20	7.56	Sand Total ------------->	32.97
#40	4.83	Silt ----------->	-.--
#60	3.97	Clay ----------->	-.--
#140	3.81	Fines Total ------------>	2.97
#200	0.60	Grand Total ------------>	100.00

ASTM CLASSIFICATION

Dark Gray Gravel w/ sand (GP)

USDA CLASSIFICATION

Sand

SAMPLE ID: MKF0268-06 CLIENT: Sequoia Analytical

01 BerryCropCC01

PROJECT ID: MKF0268 - BerryCrop DATE: 7/18/01

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PLATE 4

PARTICLE SIZE ANALYSIS

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ATTN: Jeff Smyly
SITE LOCATION: BerryMil; California

DATE COLLECTED	DATE RECEIVED	DATE of REPORT	ANALYST(S)	SUPERVISOR
6/8/01	7/6/01	7/18/01	M. Walker R. Conrad J. Nelson	D. Jacobson LAB DIRECTOR G.Conrad PhD

01 Berry Mil 01

01 Berry Mil 02

HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-07-0031	SAMPLE ID: MKF0191-01			LAB NUMBER: 01-07-0032	SAMPLE ID: MKF0191-02		
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM
3/4" Sieve	I I	100.00	0.00	Coarse Gravel	I I	85.52	17.48	Coarse Gravel
3/8" Sieve	I I	100.00	0.00	Fine Gravel	I I	70.20	12.32	Fine Gravel
Sieve #4	I	98.58	1.42		I	59.67	10.53	
Sieve #10	I I	97.08	1.50	Coarse Sand	I I	42.39	17.28	Coarse Sand
Sieve #20	I I I	95.49	1.59	Medium Sand	I I I	31.44	10.95	Medium Sand
Sieve #40	I	92.06	3.43		I	26.23	5.21	
Sieve #60	I I I	79.70	12.36	Fine Sand	I I I	22.11	4.12	Fine Sand
Sieve #140	I I	44.13	35.57		I I	17.79	4.32	
Sieve #200	I	36.89	7.24		I	16.60	1.69	
SILT (0.074)	√ 14.79			SILT (0.074)	√ 11.20			Mud
		Grvl Total->	*1.42*			*Grvl Total->*	*40.33*	
CLAY (0.005)	22.10	*Sand Total->*	*61.69*	CLAY (0.005)	5.40	*Sand Total->*	*43.07*	(Silt & Clay)
		Fines Total->	*36.89*			*Fines Total->*	*16.60*	
		Sum Total->	*100.00*			*Sum Total->*	*100.00*	

************************************ COMMENTS ************************************

Both samples classify as sand, although one is a clayey sand while the other is a silty sand with gravel; in USDA the more clayey sample is a sandy clay loam, while the other is a sandy loam. Despite the general similarity in class, these are very different in terms of sand fraction distribution and gravel content. One sample (-01) is mostly fine sand, while the other (-02) is mostly coarse and medium sand. Because of this they represent somewhat different depositional environments, i.e., low to (low) moderate energy versus (high) moderate to high energy. While one (-01) may represent an upper and/or downstream sand bar deposit, the other (-02) is more of a lower and/or upstream sand bar deposit; either could be overbank deposits but one (-01) is farther out than the other (-02).

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.

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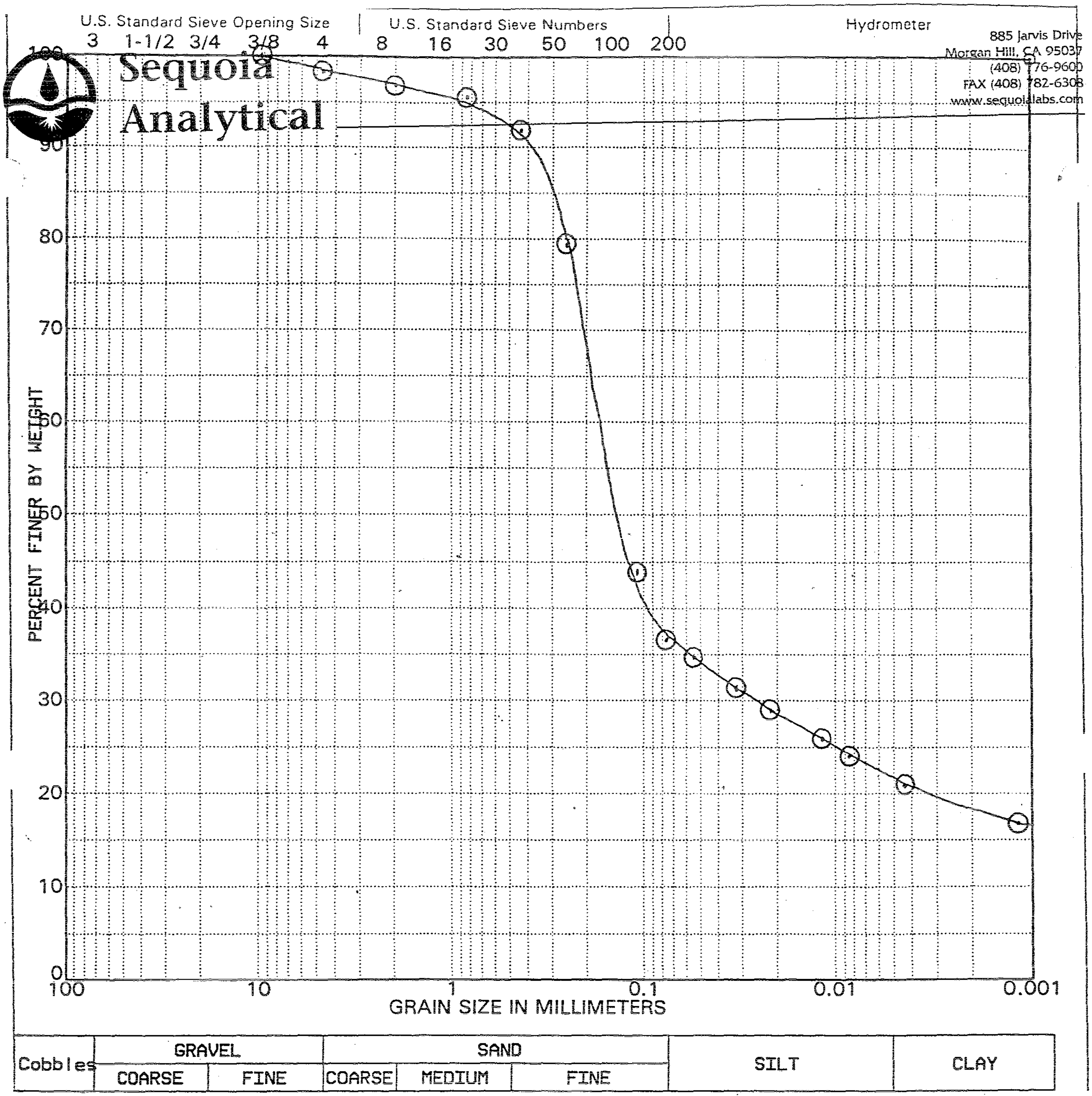

SIEVE #	% FRACTION
3/4"	0.00
3/8"	0.00
#4	1.42
#10	1.50
#20	1.59
#40	3.43
#60	12.36
#140	35.57
#200	7.24

TEXTURAL CLASSES & PERCENTAGES	
Gravel Total ----------->	1.42
Coarse Sand ---->	1.50
Medium Sand ---->	5.02
Fine Sand ------>	55.17
Sand Total ------------->	61.69
Silt ----------->	14.79
Clay ----------->	22.10
Fines Total ------------>	36.89
Grand Total ------------>	100.00

ASTM CLASSIFICATION

Brown Clayey Sand
(SC)

USDA CLASSIFICATION

Sand Clay Loam

SAMPLE ID: MKF0191-01   CLIENT: Sequoia Analytical

01 Berry Mill 01

PROJECT ID: MKF0191 - BerryMil   DATE: 7/18/01

PLATE 1

PARTICLE SIZE ANALYSIS

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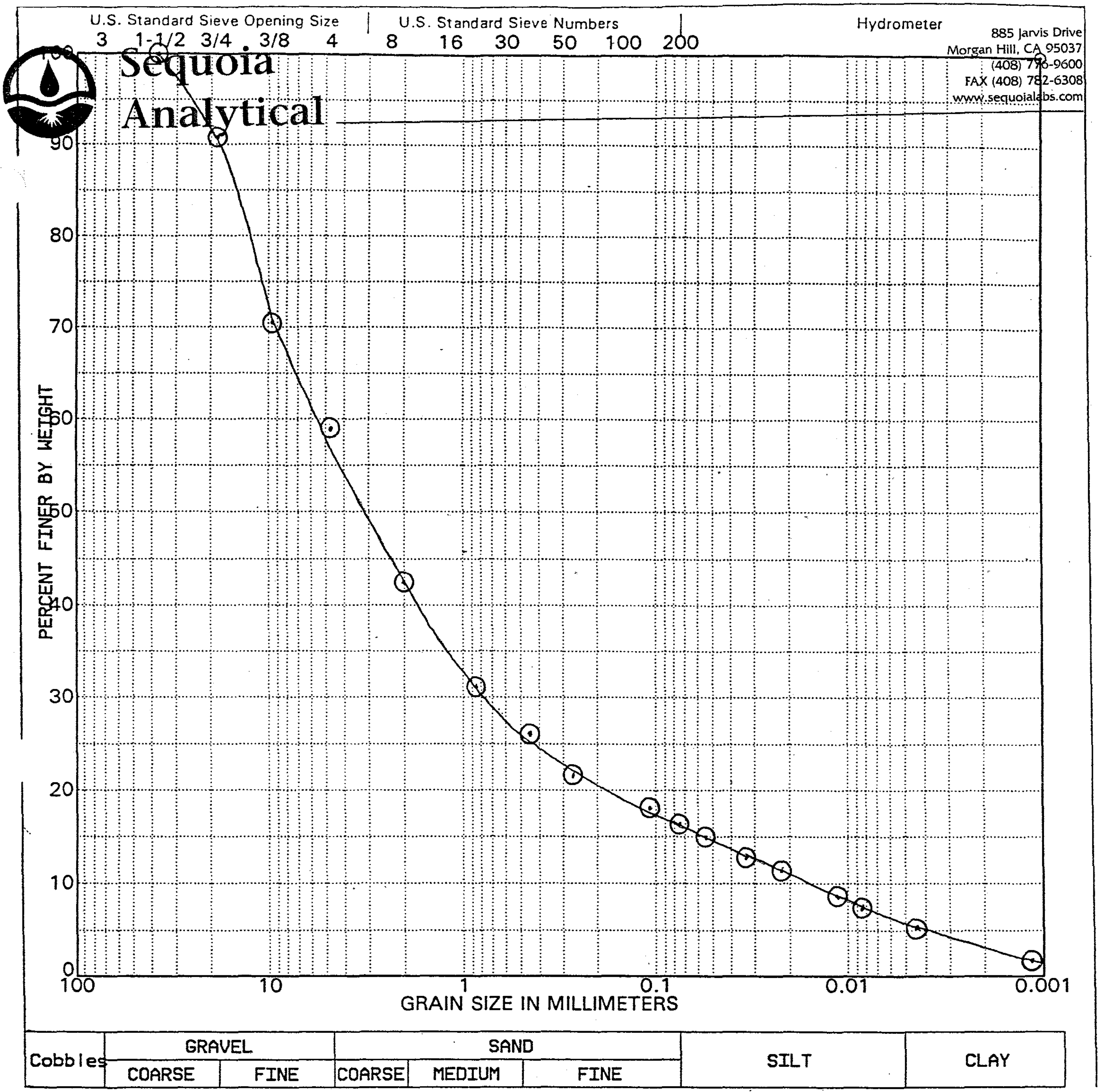

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	17.48	Gravel Total ----------->	40.33
3/8"	12.32	Coarse Sand ---->	17.28
#4	10.53	Medium Sand ---->	16.16
#10	17.28	Fine Sand ------>	9.63
#20	10.95	Sand Total ------------->	43.07
#40	5.21	Silt ----------->	11.20
#60	4.12	Clay ----------->	5.40
#140	4.32	Fines Total ------------>	16.60
#200	1.19	Grand Total ------------>	100.00

ASTM CLASSIFICATION

Brown Silty Sand w/ gravel (SM)

USDA CLASSIFICATION

Sandy Loam

SAMPLE ID: MKF0191-02 CLIENT: Sequoia Analytical

01 BerryMil 02

PROJECT ID: MKF0191 - BerryMil DATE: 7/18/01

PLATE 2

PARTICLE SIZE ANALYSIS

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ATTN:	Jeff Smyly	DATE COLLECTED	DATE RECEIVED	DATE of REPORT	M. Walker	D. Jacobson
SITE LOCATION:	BerryMil; California	6/8/01	7/6/01	7/18/01	R. Conrad J. Nelson	LAB DIRECTOR G.Conrad PhD

01 Berry Mil CC02

HYDROMETER & SIEVE ANALYSIS REPORT

SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM
	LAB NUMBER: 01-07-0033	SAMPLE ID: MKF0191-04			LAB NUMBER:		SAMPLE ID:	
3/4" Sieve		100.00	0.00	Coarse Gravel				Coarse Gravel
3/8" Sieve		89.29	10.71	Fine Gravel				Fine Gravel
Sieve #4		79.76	9.53					
Sieve #10		70.70	9.06	Coarse Sand				Coarse Sand
Sieve #20		63.92	6.78	Medium Sand				Medium Sand
ve #40		57.13	6.79					
Sieve #60		52.13	5.00	Fine Sand				Fine Sand
Sieve #140		44.52	7.61					
Sieve #200		41.02	3.50					
SILT (0.074)	√ 19.62			MUD (Silt + Clay)	√			Mud (Silt & Clay)
CLAY (0.005)	21.40							

Grvl Total->	*20.24*	*Grvl Total->*	*0.00*
Sand Total->	*38.74*	*Sand Total->*	*0.00*
Fines Total->	*41.02*	*Fines Total->*	*0.00*
Sum Total->	*100.00*	*Sum Total->*	*0.00*

************************************ COMMENTS ************************************

This sample classifies as sandy clay with gravel; sand content is almost double the gravel content. This is mostly a low energy deposit, but runs the range from low to high energy with changing energy conditions; moderate energies are prevalent much of the time. This may represent inside channel deposits which are at low flow most of the time, but experience higher flow regimes, i.e., moderate to high, during parts of the annual cycle.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.

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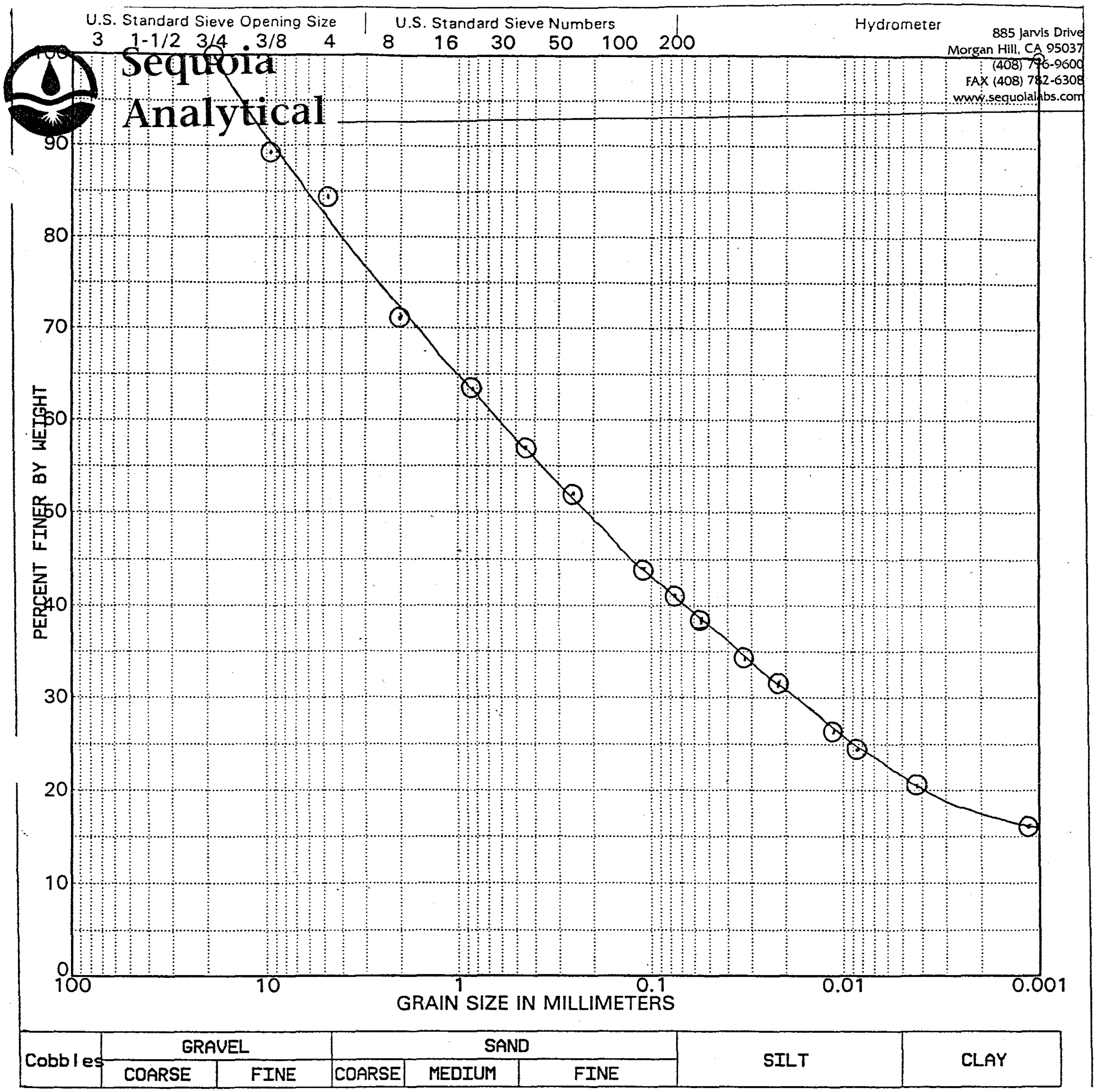

SIEVE #	% FRACTION
3/4"	0.00
3/8"	10.71
#4	9.53
#10	9.06
#20	6.78
#40	6.79
#60	5.00
#140	7.61
#200	3.50

TEXTURAL CLASSES & PERCENTAGES

Gravel Total ------------> 20.24
Coarse Sand ----> 9.06
Medium Sand ----> 13.57
Fine Sand -------> 16.11
Sand Total --------------> 38.74
Silt -----------> 19.62
Clay -----------> 21.40
Fines Total ------------> 41.02
Grand Total ------------> 100.00

ASTM CLASSIFICATION

Gray Sandy Clay w/ gravel (CL)

USDA CLASSIFICATION

Clay Loam

SAMPLE ID: MKF0191-04 CLIENT: Sequoia Analytical
01 Berry Mil CC02
PROJECT ID: MKF0191 - BerryMil DATE: 7/18/01

PLATE 3

PARTICLE SIZE ANALYSIS

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ATTN:	Jeff Smyly	DATE COLLECTED	DATE RECEIVED	S. Banwait	D. Jacobson
SITE LOCATION:	BerryPied; California	6/8/01	7/6/01	R. Conrad	LAB DIRECTOR
			DATE of REPORT 7/18/01	J. Nelson	G.Conrad PhD

01BerryPied01 01Berry Pied CC01

HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-07-0034	SAMPLE ID: MKF0268-01			LAB NUMBER: 01-07-0035	SAMPLE ID: MKF0268-02		
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM
3/4" Sieve		97.41	2.59	Coarse Gravel		93.31	6.69	Coarse Gravel
3/8" Sieve		92.17	5.24	Fine Gravel		69.49	23.82	Fine Gravel
Sieve #4		78.36	13.81			47.25	22.24	
Sieve #10		64.22	14.14	Coarse Sand		34.16	13.09	Coarse Sand
Sieve #20		55.67	8.55	Medium Sand		25.90	8.26	Medium Sand
ve #40		41.35	14.32			20.37	5.53	
Sieve #60		27.46	13.89	Fine Sand		14.77	5.60	Fine Sand
Sieve #140		14.39	13.07			8.49	6.28	
Sieve #200		11.80	2.59			7.80	0.69	
SILT (0.074)	√ 7.40			MUD (Silt & Clay)	√			Mud (Silt & Clay)
		Grvl Total->	*21.64*		7.80	*Grvl Total->*	*52.75*	
CLAY (0.005)	4.40	*Sand Total->*	*66.56*			*Sand Total->*	*39.45*	
		Fines Total->	*11.80*			*Fines Total->*	*7.80*	
		Sum Total->	*100.00*			*Sum Total->*	*100.00*	

********************************** COMMENTS **********************************

These samples are either sand with gravel or vice versa; in one (-01) sand dominates, and in the other gravel dominates - they are almost the reverse of one another. Both represent moderate to high energy flow regimes with the dominant regime being moderate in one (-01), and (the low end of) high in the other (-02). The sandier sample may represent mid-level sand bar, while other could be lower sand bar and/or upstream bar deposit.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.

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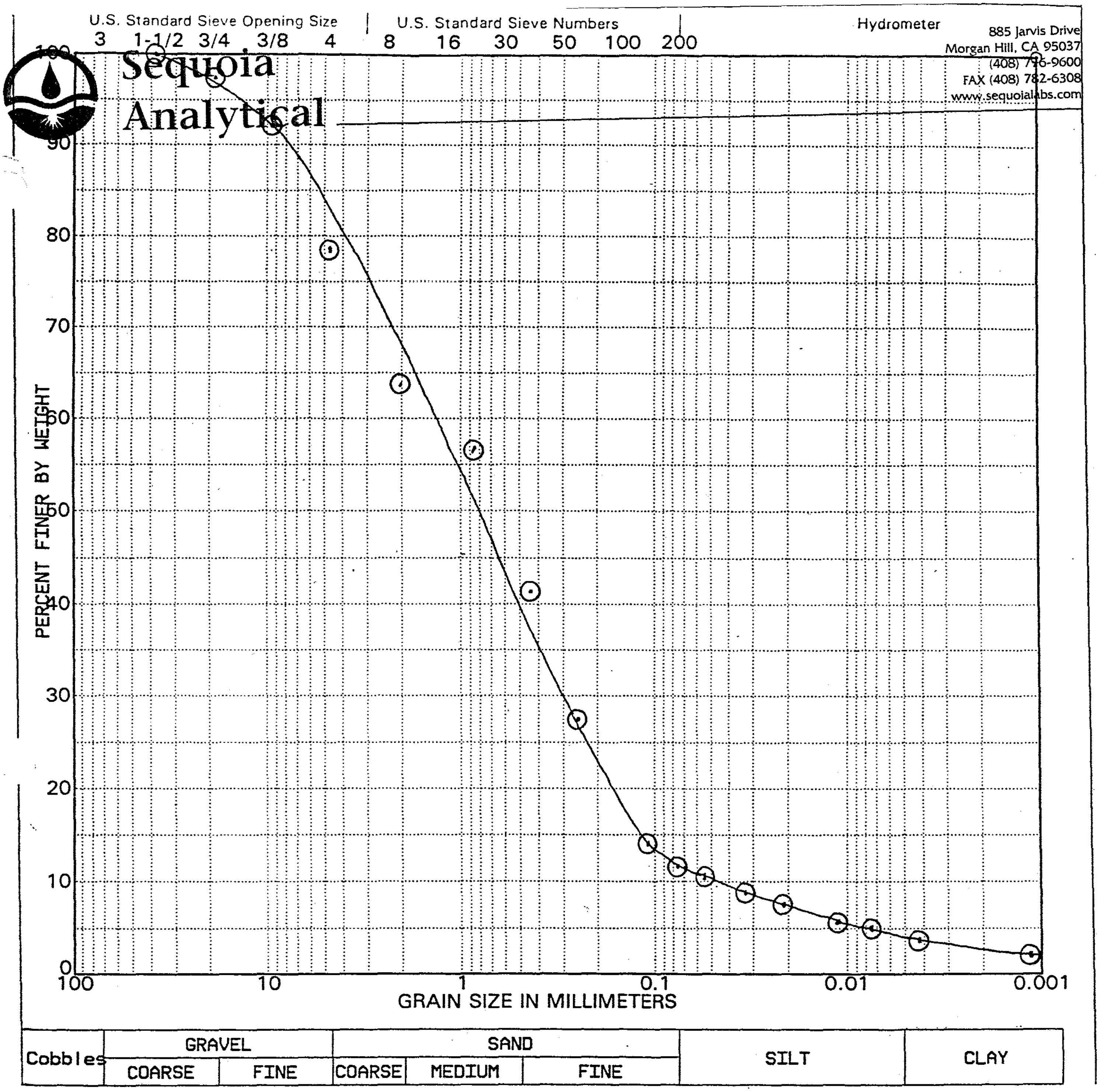

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	2.59	Gravel Total ----------->	21.64
3/8"	5.24	Coarse Sand ---->	14.14
#4	13.81	Medium Sand ---->	22.87
#10	14.14	Fine Sand ------>	29.55
#20	8.55	Sand Total ------------->	66.56
#40	14.32	Silt ----------->	7.40
#60	13.89	Clay ----------->	4.40
#140	13.07	Fines Total ------------>	11.80
#200	2.59	Grand Total ------------>	100.00

ASTM CLASSIFICATION

Gray Sand w/ gravel and silt (SP-SM)

USDA CLASSIFICATION

Loamy Sand

SAMPLE ID: MKF0268-01 CLIENT: Sequoia Analytical

01 BerryPied 01

PROJECT ID: MKF0268 - BerryPied DATE: 7/18/01

PLATE 1

PARTICLE SIZE ANALYSIS

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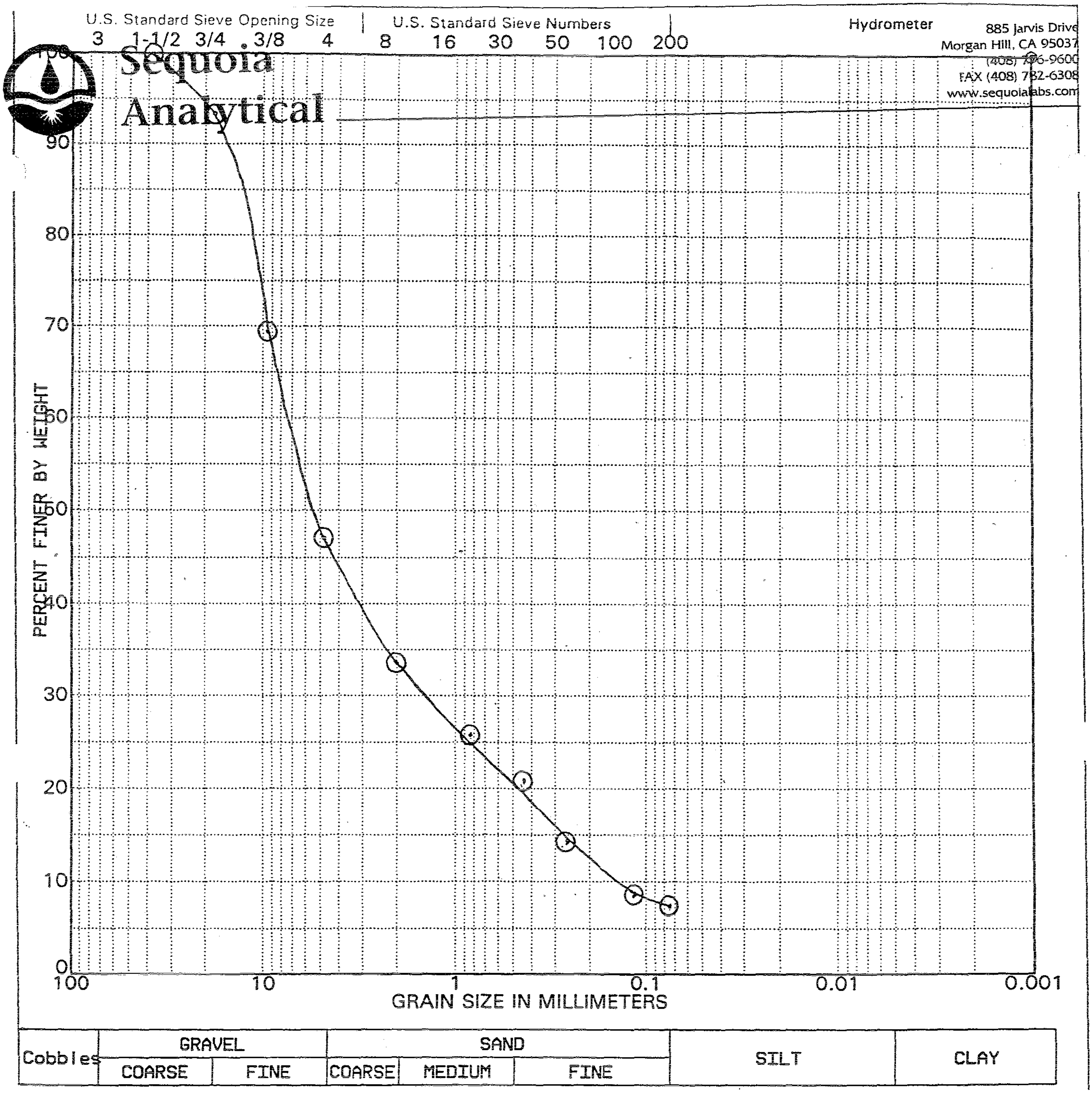

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	6.69	Gravel Total ----------->	52.75
3/8"	23.82	Coarse Sand ---->	13.09
#4	22.24	Medium Sand ---->	13.79
#10	13.09	Fine Sand ------>	12.57
#20	8.26	Sand Total ------------->	39.45
#40	5.53	Silt ----------->	-.--
#60	5.60	Clay ----------->	-.--
#140	6.28	Fines Total ------------>	7.80
#200	0.69	Grand Total ------------>	100.00

ASTM CLASSIFICATION

Brown Gravel w/ silt and sand (GP-GM)

USDA CLASSIFICATION

Loamy Sand

SAMPLE ID: MKF0268-02 CLIENT: Sequoia Analytical

01 BerryPied CC01

PROJECT ID: MKF0268 - BerryPied DATE: 7/18/01

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PLATE 2

PARTICLE SIZE ANALYSIS

E T S

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ATTN: Jeff Smyly
SITE LOCATION: Calabazas, California

DATE COLLECTED	DATE RECEIVED	DATE of REPORT	ANALYST(S)	SUPERVISOR
			S. Banwait	D. Jacobson
			R. Conrad	LAB DIRECTOR
6/3/01	6/6/01	6/27/01	J. Nelson	G.Conrad PhD

01Calabazas 06 01Calabazas07

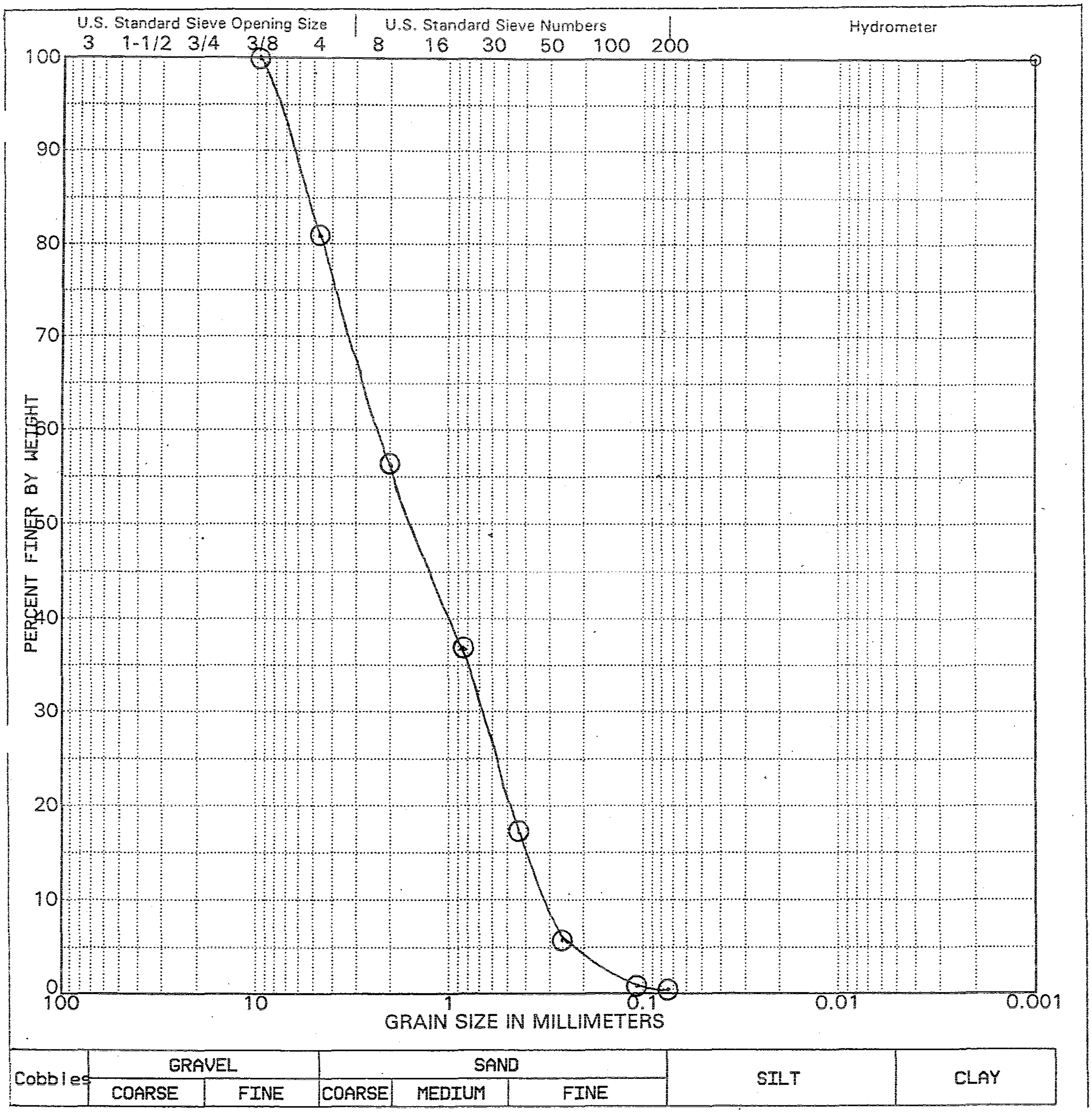
HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0061		SAMPLE ID: MKF0033-01		LAB NUMBER: 01-06-0062		SAMPLE ID: MKF0033-04	
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve	I	100.00	0.00	Coarse Gravel	I	100.00	0.00	Coarse Gravel
3/8" Sieve	I	100.00	0.00	Fine Gravel	I	75.60	24.40	Fine Gravel
Sieve #4	I	81.00	19.00		I	59.29	16.31	
Sieve #10	I	56.97	24.03	Coarse Sand	I	28.53	30.76	Coarse Sand
Sieve #20	I	36.48	20.49	Medium Sand	I	9.40	19.13	Medium Sand
ieve #40	I	17.56	18.92		I	2.13	7.28	
Sieve #60	I	5.85	11.71	Fine Sand	I	0.33	1.79	Fine Sand
Sieve #140	I	0.81	5.04		I	0.12	0.21	
Sieve #200	I	0.41	0.40		I	0.08	0.04	
MUD (Silt & Clay)	√ 0.41	*Grvl Total->*	*19.00*	MUD (Silt & Clay)	√ 0.08	*Grvl Total->*	*40.71*	Mud (Silt & Clay)
		Sand Total->	*80.59*			*Sand Total->*	*59.21*	
		Fines Total->	*0.41*			*Fines Total->*	*0.08*	
		Sum Total->	*100.00*			*Sum Total->*	*100.00*	

********************************** COMMENTS **********************************

These two samples along with the next one are mostly coarse sand and gravel with almost no fines at all. Two have under 1% mud (one is under 0.1% fines!), and the third is under 2%; i.e., all have <5% mud. Thus, these materials appear to represent stream lag deposits where the energy is high and flow regime is fast when there is flow.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet eved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total ------------>	19.00
3/8"	0.00	Coarse Sand ---->	24.03
#4	19.00	Medium Sand ---->	39.41
#10	24.03	Fine Sand ------>	17.15
#20	20.49	Sand Total -------------->	80.59
#40	18.92	Silt ----------->	-.--
#60	11.71	Clay ----------->	-.--
#140	5.04	Fines Total ------------>	0.41
#200	0.40	Grand Total ------------>	100.00

SOIL CLASSIFICATION

Gray Sand
w/ gravel (SP)

USDA CLASSIFICATION

Sand

SAMPLE ID: MKF0033-01 CLIENT: Sequoia Analytical

01Calabazas06

PROJECT ID: MKE0033 - Calabazas DATE: 6/27/01

PLATE 1

PARTICLE SIZE ANALYSIS

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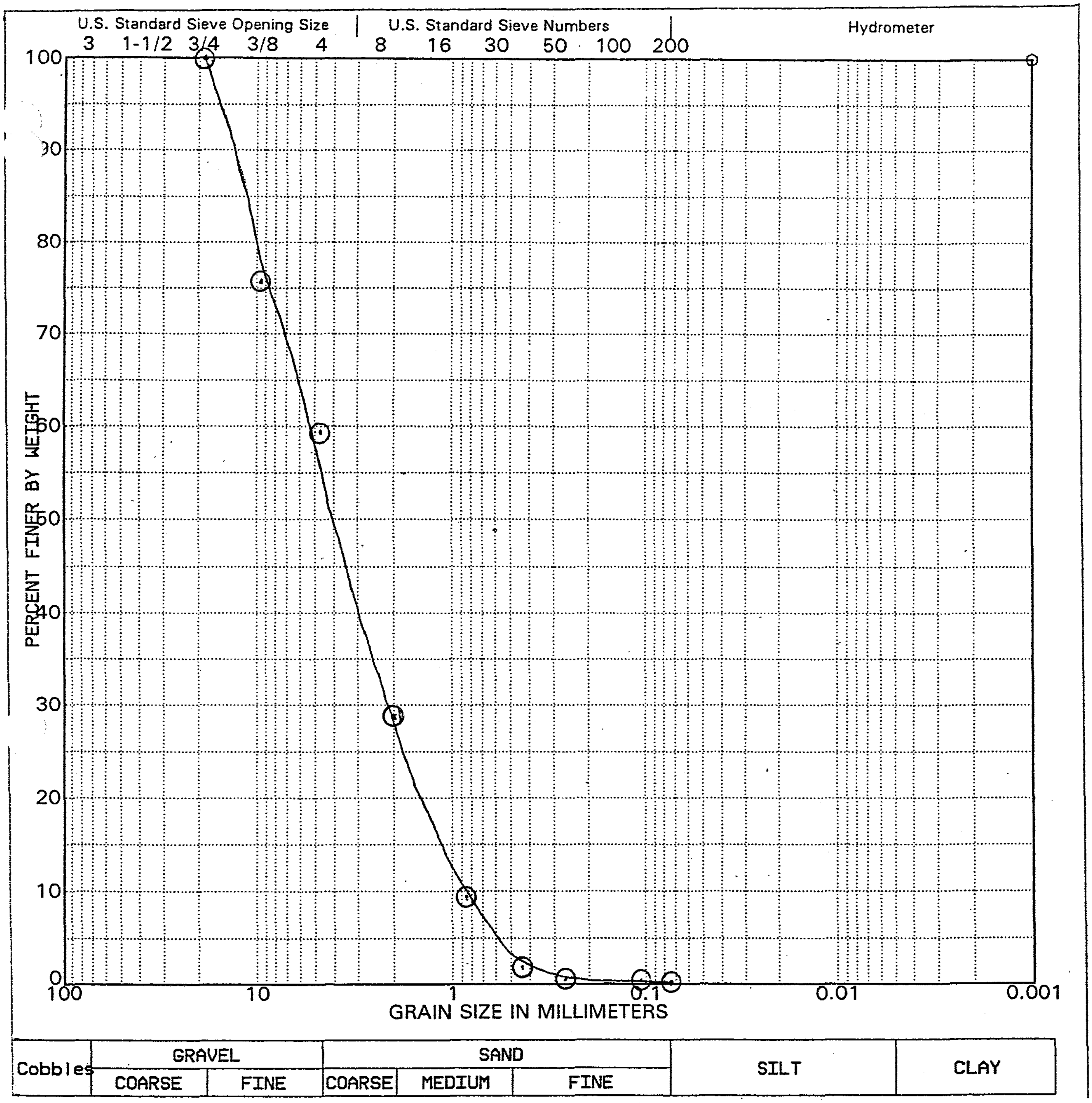

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	0.00	Gravel Total ------------> 40.71
3/8"	24.40	Coarse Sand ----> 30.76
#4	16.31	Medium Sand ----> 26.41
#10	30.76	Fine Sand ------> 2.04
#20	19.13	Sand Total --------------> 59.21
#40	7.28	Silt ------------> -.--
#60	1.79	Clay ------------> -.--
#140	0.21	Fines Total -------------> 0.08
#200	0.04	Grand Total -------------> 100.00

SOIL CLASSIFICATION

Gray Sand
w/ gravel (SP)

USDA CLASSIFICATION
Sand

SAMPLE ID: MKF0033-04 CLIENT: Sequoia Analytical
01Calabazas07
PROJECT ID: MKE0033 - Calabazas DATE: 6/27/01

PLATE **2**

PARTICLE SIZE ANALYSIS

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ATTN: Jeff Smyly	DATE COLLECTED	DATE RECEIVED	DATE of REPORT	S. Banwait	D. Jacobson
SITE LOCATION: Calabazas, California				R. Conrad	LAB DIRECTOR
	6/3/01	6/6/01	6/27/01	J. Nelson	G.Conrad PhD

01Calabazas08

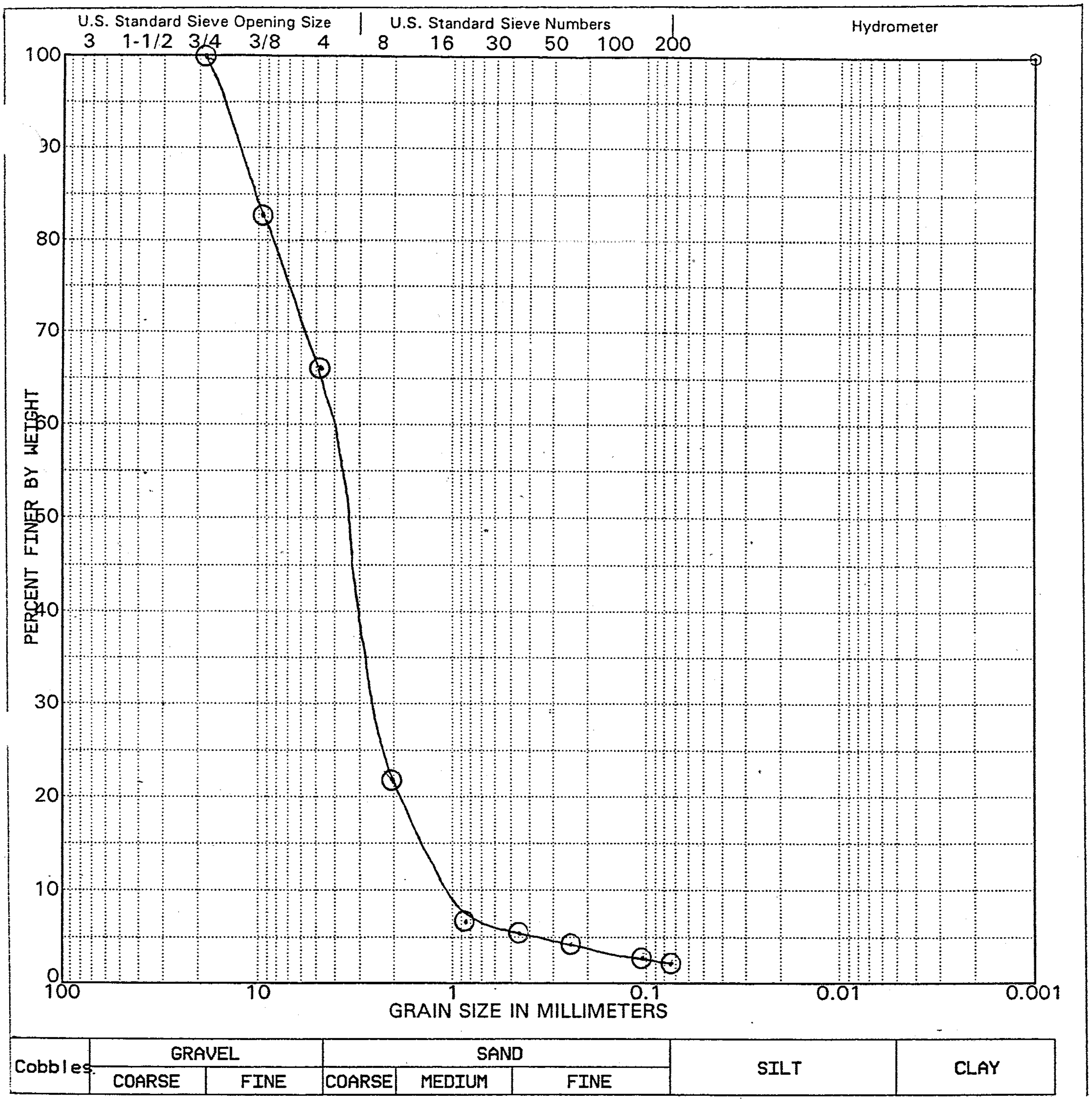
HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0063		SAMPLE ID: MKF0033-05		LAB NUMBER:		SAMPLE ID:	
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel				Coarse Gravel
3/8" Sieve		82.35	17.65	Fine Gravel				Fine Gravel
Sieve #4		66.07	16.28					
Sieve #10		21.71	44.36	Coarse Sand				Coarse Sand
Sieve #20		7.16	14.55	Medium Sand				Medium Sand
Sieve #40		5.26	1.90					
Sieve #60		4.20	1.06	Fine Sand				Fine Sand
Sieve #140		3.11	1.09					
Sieve #200		1.91	1.20					
MUD (Silt & Clay)	√ 1.91	*Grvl Total->* *Sand Total->* *Fines Total->* *Sum Total->*	*33.93* *64.16* *1.91* *100.00*	MUD (Silt & Clay)	√	*Grvl Total->* *Sand Total->* *Fines Total->* *Sum Total->*	*0.00* *0.00* *0.00* *100.00*	Mud (Silt & Clay)

*********************************** COMMENTS ************************************

This sample is similar to the two previous samples in that it is mostly coarse sand and gravel with almost no fines - in this case <2% mud content. As concluded for the two previous samples (-01 & -04) this sediment appears to represent stream lag deposits where the energy is high and flow regime is fast when there is flow.

\ NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	0.00	Gravel Total -----------> 33.93
3/8"	17.65	Coarse Sand ----> 44.36
#4	16.28	Medium Sand ----> 16.45
#10	44.36	Fine Sand ------> 3.35
#20	14.55	Sand Total -------------> 64.16
#40	1.90	Silt -----------> -.--
#60	1.06	Clay -----------> -.--
#140	1.09	Fines Total ------------> 1.91
#200	1.20	Grand Total ------------> 100.00

SOIL CLASSIFICATION

Gray Sand
w/ gravel (SP)

USDA CLASSIFICATION

Sand

SAMPLE ID: MKF0033-05 CLIENT: Sequoia Analytical

01Calabazas08

PROJECT ID: MKE0033 - Calabazas DATE: 6/27/01

PLATE 3

PARTICLE SIZE ANALYSIS

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ATTN: Jeff Smyly
SITE LOCATION: Calabazas, California

DATE COLLECTED	DATE RECEIVED	DATE of REPORT	ANALYST(S)	SUPERVISOR
6/3/01	6/6/01	6/27/01	S. Banwait R. Conrad J. Nelson	D. Jacobson LAB DIRECTOR G.Conrad PhD

01Calabaza S05 01Calabaza S04

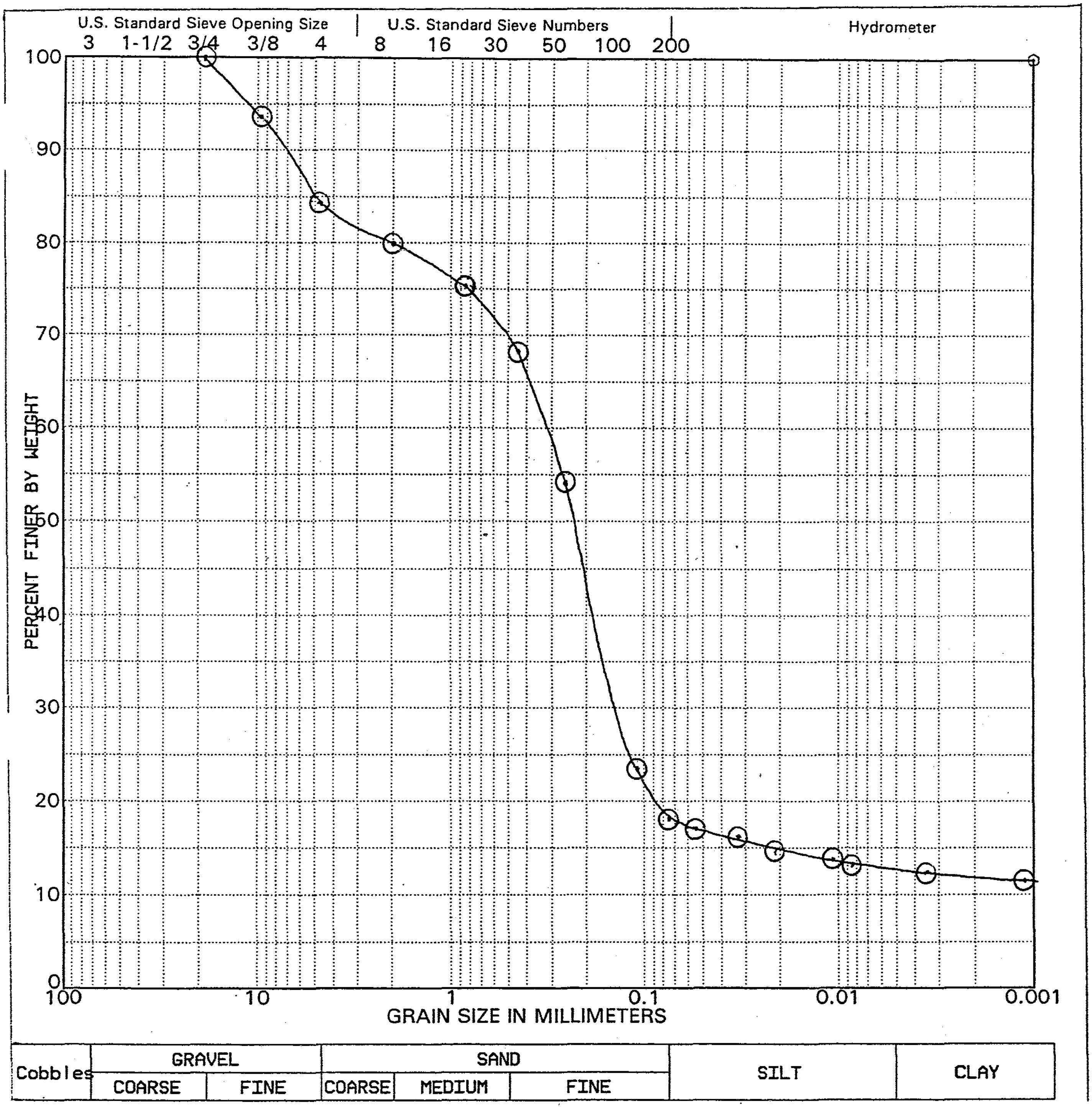
HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0064	SAMPLE ID:	MKF0033-08		LAB NUMBER: 01-06-0065		SAMPLE ID:	MKF0033-12
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel		100.00	0.00	Coarse Gravel
3/8" Sieve		93.75	6.25	Fine Gravel		100.00	0.00	Fine Gravel
Sieve #4		84.65	9.10			95.09	4.91	
Sieve #10		80.07	4.58	Coarse Sand		87.39	7.70	Coarse Sand
Sieve #20		75.57	4.50	Medium Sand		78.59	8.80	Medium Sand
Sieve #40		67.98	7.59			63.13	15.46	
Sieve #60		49.10	18.88	Fine Sand		42.46	20.67	Fine Sand
Sieve #140		23.97	25.13			17.43	25.03	
Sieve #200		18.01	5.96			13.07	4.36	
SILT (0.074)	√ 5.34			SILT (0.074)	√ 9.05			Mud
		Grvl Total->	*15.35*			*Grvl Total->*	*4.91*	
CLAY (0.005)	12.67	*Sand Total->*	*66.64*	CLAY (0.005)	4.02	*Sand Total->*	*82.02*	(Silt & Clay)
		Fines Total->	*18.01*			*Fines Total->*	*13.07*	
		Sum Total->	*100.00*			*Sum Total->*	*100.00*	

************************************ COMMENTS ************************************

These two samples are similar to most (5 of the 6 samples) that follow in that they are mostly sands with varying amounts of mud and gravel. In these two samples gravel content is essentially in the 5-15% range which is relatively high as compared with the following samples. And at the same time they have substantially less mud content than those samples that follow. As a result, these samples appear to represent a higher energy flow regime than those that follow, e.g. mid- to lower level sand bar and similar deposits.

\ NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	0.00	Gravel Total ------------> 15.35
3/8"	6.25	Coarse Sand ----> 4.58
#4	9.10	Medium Sand ----> 12.09
#10	4.58	Fine Sand ------> 49.97
#20	4.50	Sand Total --------------> 66.64
#40	7.59	Silt ------------> 5.34
#60	18.88	Clay ------------> 12.67
#140	25.13	Fines Total -------------> 18.01
#200	5.96	Grand Total -------------> 100.00

SOIL CLASSIFICATION

Brown Clayey Sand w/ gravel (SC)

USDA CLASSIFICATION

Sandy Loam

SAMPLE ID: MKF0033-08 CLIENT: Sequoia Analytical

01Calabazas05

PROJECT ID: MKE0033 - Calabazas DATE: 6/27/01

PLATE 4

PARTICLE SIZE ANALYSIS

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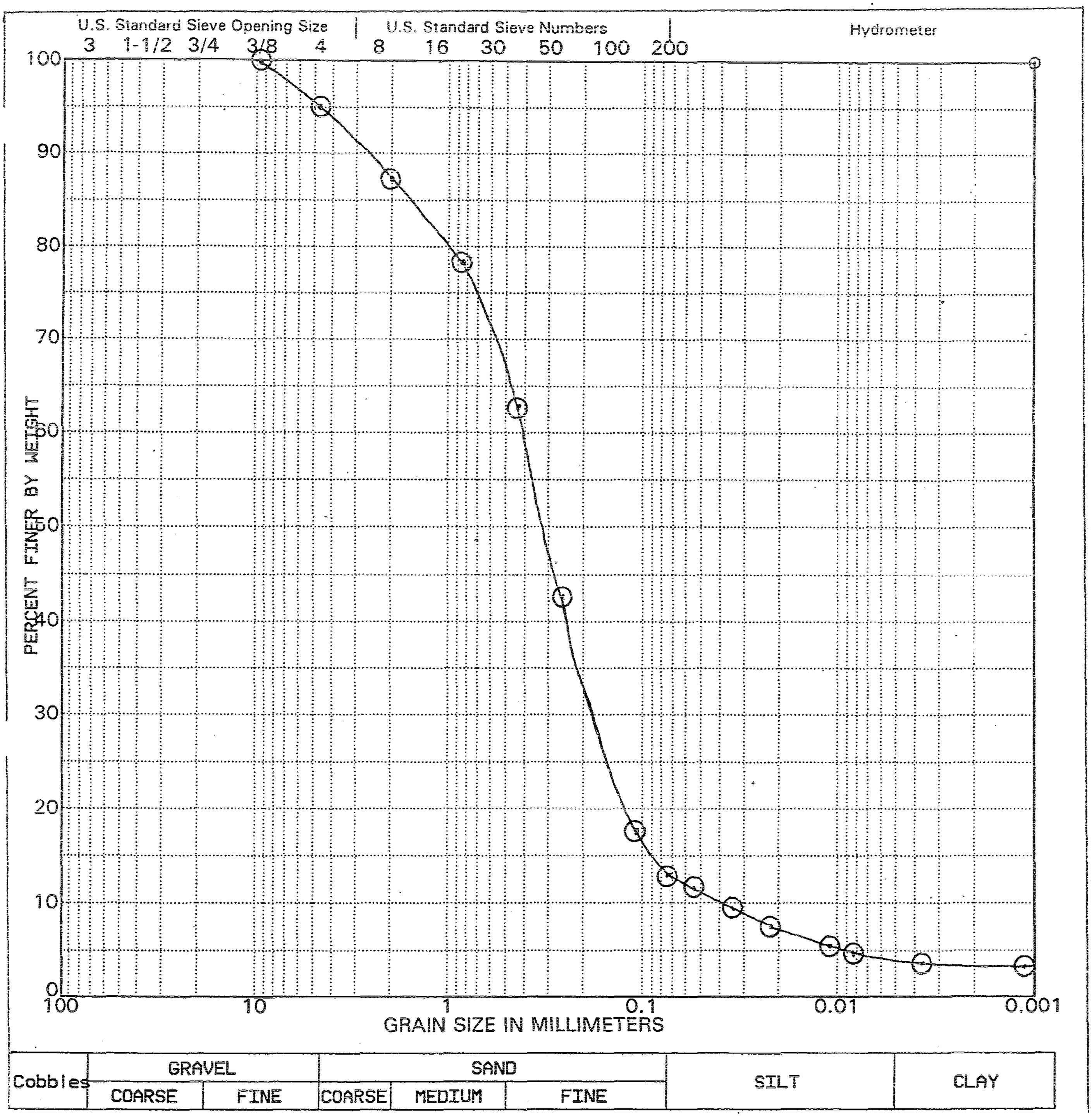

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	0.00	Gravel Total -----------> 4.91
3/8"	0.00	Coarse Sand ----> 7.70
#4	4.91	Medium Sand ----> 24.26
#10	7.70	Fine Sand ------> 50.06
#20	8.80	Sand Total -------------> 82.02
#40	15.46	Silt -----------> 9.05
#60	20.67	Clay -----------> 4.02
#140	25.03	Fines Total ------------> 13.07
#200	4.36	Grand Total ------------> 100.00

SOIL CLASSIFICATION

Brown Silty Sand (SM)

USDA CLASSIFICATION

Loamy Sand

SAMPLE ID: MKF0033-12 CLIENT: Sequoia Analytical

01 Calabazas04

PROJECT ID: MKE0033 - Calabazas DATE: 6/27/01

PLATE **5**

PARTICLE SIZE ANALYSIS

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ATTN: Jeff Smyly
SITE LOCATION: Calabazas, California

DATE COLLECTED	DATE RECEIVED	DATE of REPORT	ANALYST(S)	SUPERVISOR
6/3/01	6/6/01	6/27/01	S. Banwait R. Conrad J. Nelson	D. Jacobson LAB DIRECTOR G.Conrad PhD

01Calabazas03 01Calabazas02

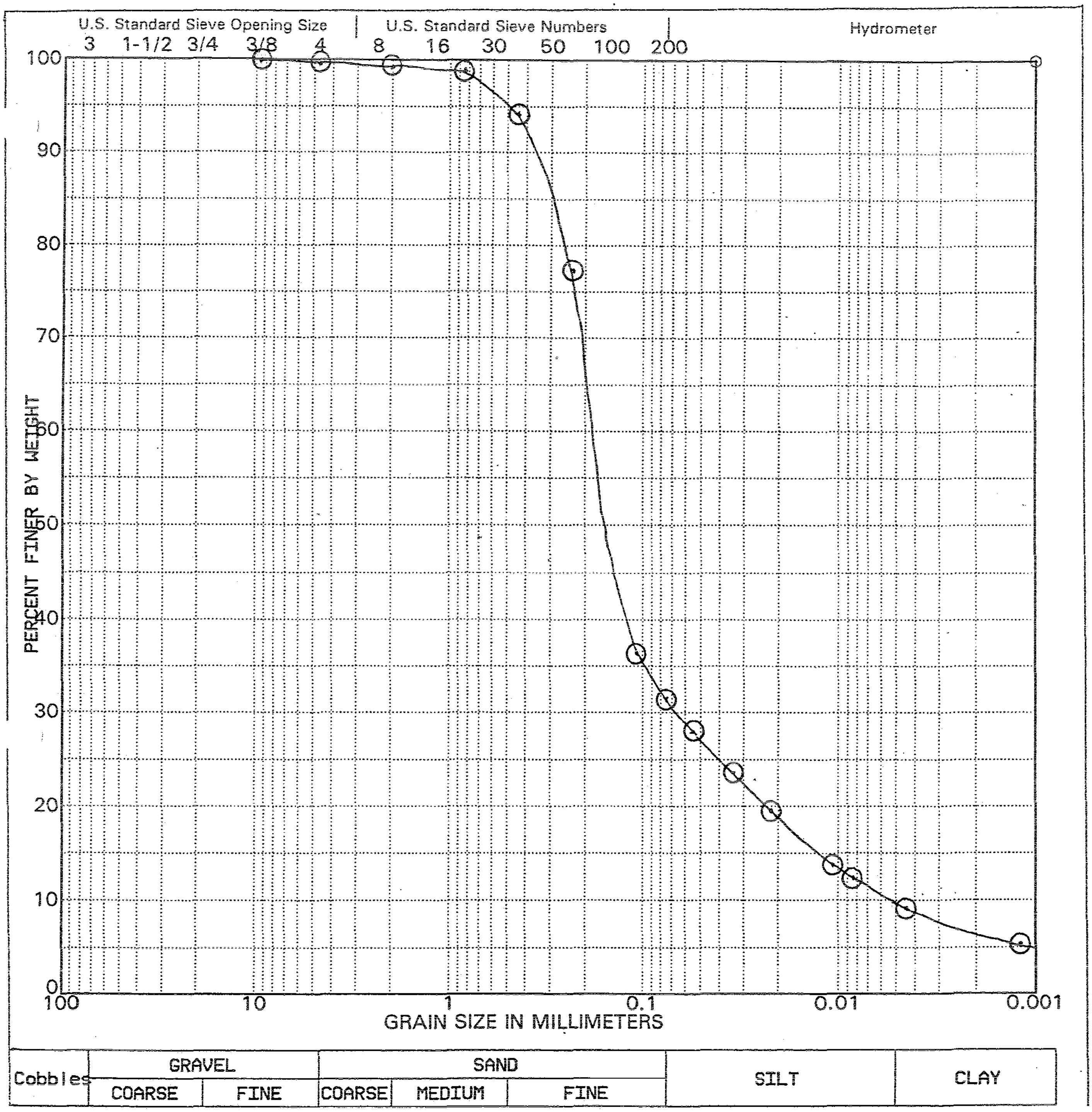
HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0066	SAMPLE ID:	MKF0033-13		LAB NUMBER: 01-06-0067	SAMPLE ID:	MKF0033-14	
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel		100	0.00	Coarse Gravel
3/8" Sieve		100.00	0.00	Fine Gravel		100	0.00	Fine Gravel
Sieve #4		99.78	0.22			99.77	0.23	
Sieve #10		99.52	0.26	Coarse Sand		99.52	0.25	Coarse Sand
Sieve #20		99.17	0.35	Medium Sand		99.19	0.33	Medium Sand
.eve #40		94.41	4.76			97.03	2.16	
Sieve #60		77.44	16.97	Fine Sand		87.33	9.71	Fine Sand
Sieve #140		36.68	40.76			55.71	31.62	
Sieve #200		32.00	4.68			42.71	12.99	
SILT (0.074)	√ 22.22			SILT (0.074)	√ 22.84			Mud
		Grvl Total->	*0.22*			*Grvl Total->*	*0.23*	
CLAY (0.005)	9.78	*Sand Total->*	*67.78*	CLAY (0.005)	19.87	*Sand Total->*	*57.06*	(Silt & Clay)
		Fines Total->	*32.00*			*Fines Total->*	*42.71*	
		Sum Total->	*100.00*			*Sum Total->*	*100.00*	

************************************ COMMENTS ************************************

These two samples are similar to the previous two in that they are sands, one a silty sand the other a clayey sand, but they have significantly more mud and virtually no gravel content. As a result, they may represent higher level sand bar or similar deposits. As is the case for the previous two samples (-08 & -12), these two samples are mostly fine sand which is consistent with a low-moderate energy level. The high mud content is indicative of low flow regimes a significant percentage of the time.

\ NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet .eved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total ------------>	0.22
3/8"	0.00	Coarse Sand ---->	0.26
#4	0.22	Medium Sand ---->	5.11
#10	0.26	Fine Sand ------>	62.41
#20	0.35	Sand Total -------------->	67.78
#40	4.76	Silt ----------->	22.22
#60	16.97	Clay ----------->	9.78
#140	40.76	Fines Total ------------->	32.00
#200	4.68	Grand Total ------------->	100.00

SOIL CLASSIFICATION

Brown Silty Sand (SM)

USDA CLASSIFICATION

Sandy Loam

SAMPLE ID: MKF0033-13 CLIENT: Sequoia Analytical

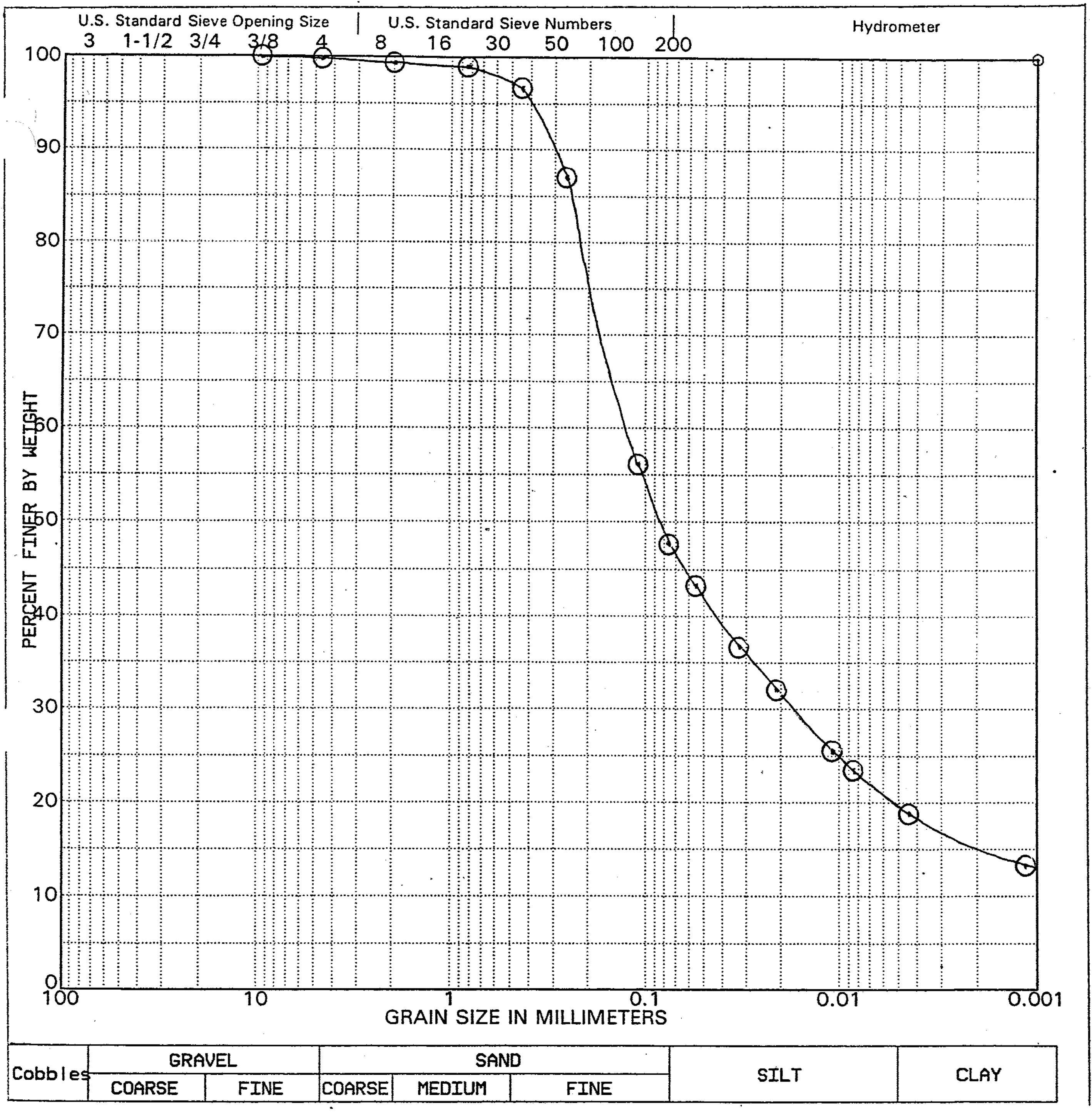
01CalabazaS03

PROJECT ID: MKE0033 - Calabazas DATE: 6/27/01

PLATE 6

PARTICLE SIZE ANALYSIS

E T S



SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	0.00	Gravel Total ------------> 0.23
3/8"	0.00	Coarse Sand ----> 0.25
#4	0.23	Medium Sand ----> 2.49
#10	0.25	Fine Sand ------> 54.32
#20	0.33	Sand Total --------------> 57.06
#40	2.16	Silt -----------> 22.84
#60	9.71	Clay -----------> 19.87
#140	31.62	Fines Total -------------> 42.71
#200	12.99	Grand Total -------------> 100.00

SOIL CLASSIFICATION

Brown Clayey Sand (SC)

USDA CLASSIFICATION

Sandy Loam

SAMPLE ID: MKF0033-14 CLIENT: Sequoia Analytical

01Calabazas02

PROJECT ID: MKE0033 - Calabazas DATE: 6/27/01

PLATE 7

PARTICLE SIZE ANALYSIS

E T S

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ATTN: Jeff Smyly	DATE COLLECTED	DATE RECEIVED	DATE of REPORT	S. Banwait	D. Jacobson
SITE LOCATION: Calabazas, California				R. Conrad	LAB DIRECTOR
	6/3/01	6/6/01	6/27/01	J. Nelson	G.Conrad PhD

01Calabazas CC03 01Calabazas 01

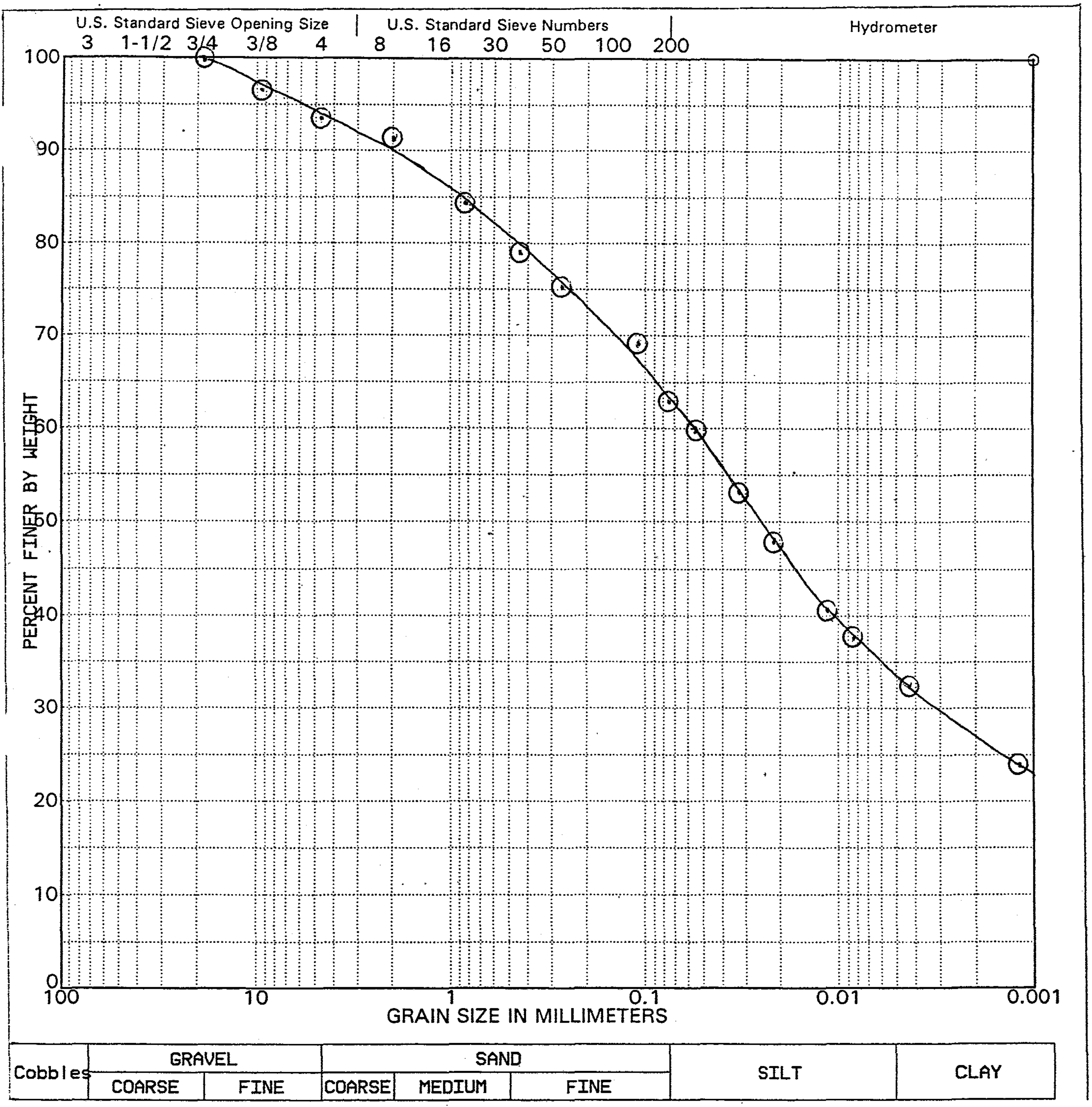
HYDROMETER & SIEVE ANALYSIS REPORT

SIEVE SIZE (SCREEN #)	LAB NUMBER: 01-06-0068 FINES PERCENTAGE	PERCENT PASSING	SAMPLE ID: MKF0033-17 PERCENT RETAINED	(UNIFIED) SYSTEM	LAB NUMBER: 01-06-0069 HYDROMETER PERCENTAGE	PERCENT PASSING	SAMPLE ID: MKF0033-19 PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel		100.00	0.00	Coarse Gravel
3/8" Sieve		96.40	3.60	Fine Gravel		100.00	0.00	Fine Gravel
Sieve #4		93.53	2.87			99.84	0.16	
Sieve #10		91.42	2.11	Coarse Sand		99.69	0.15	Coarse Sand
Sieve #20		84.65	6.77	Medium Sand		99.52	0.18	Medium Sand
Sieve #40		79.00	5.65			84.16	15.36	
Sieve #60		75.17	3.83	Fine Sand		68.45	15.70	Fine Sand
Sieve #140		69.19	5.98			50.43	18.02	
Sieve #200		63.65	5.54			44.24	6.19	
SILT (0.074)	√ 30.60			SILT (0.074)	√ 27.23			Mud
		Grvl Total->	*6.47*			*Grvl Total->*	*0.16*	
CLAY (0.005)	33.05	*Sand Total->*	*29.88*	CLAY (0.005)	17.01	*Sand Total->*	*55.60*	(Silt & Clay)
		Fines Total->	*63.65*			*Fines Total->*	*44.24*	
		Sum Total->	*100.00*			*Sum Total->*	*0.00*	

************************************ COMMENTS ************************************

One of these two samples is similar to the previous four, i.e., it is a sand - in this case a clayey sand, but the other is a sandy clay. Therefore, while the sandy material represents basically the same depositional environment and flow regime as the previous two samples (i.e., -13 & -14), the other sample represents an even lower energy flow regime, i.e., a fairly low level of energy. Still, there was enough energy to transport and deposit medium and coarse sand, and even fine gravel. This is indicative of a more variable flow regime where low/slow flow predominates, but moderate energy levels of flow occur occasionally.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	% FRACTION
3/4"	0.00
3/8"	3.60
#4	2.87
#10	2.11
#20	6.77
#40	5.65
#60	3.83
#140	5.98
#200	5.54

TEXTURAL CLASSES & PERCENTAGES	
Gravel Total ------------>	6.47
Coarse Sand ---->	2.11
Medium Sand ---->	12.42
Fine Sand ------>	15.35
Sand Total -------------->	29.88
Silt ------------>	30.60
Clay ------------>	33.05
Fines Total ------------->	63.65
Grand Total ------------->	100.00

SOIL CLASSIFICATION

Lt.Brown Sandy Clay (CL)

USDA CLASSIFICATION

Clay Loam

SAMPLE ID: MKF0033-17 CLIENT: Sequoia Analytical

01Calabazas CC03

PROJECT ID: MKE0033 - Calabazas DATE: 6/27/01

PLATE 8

PARTICLE SIZE ANALYSIS

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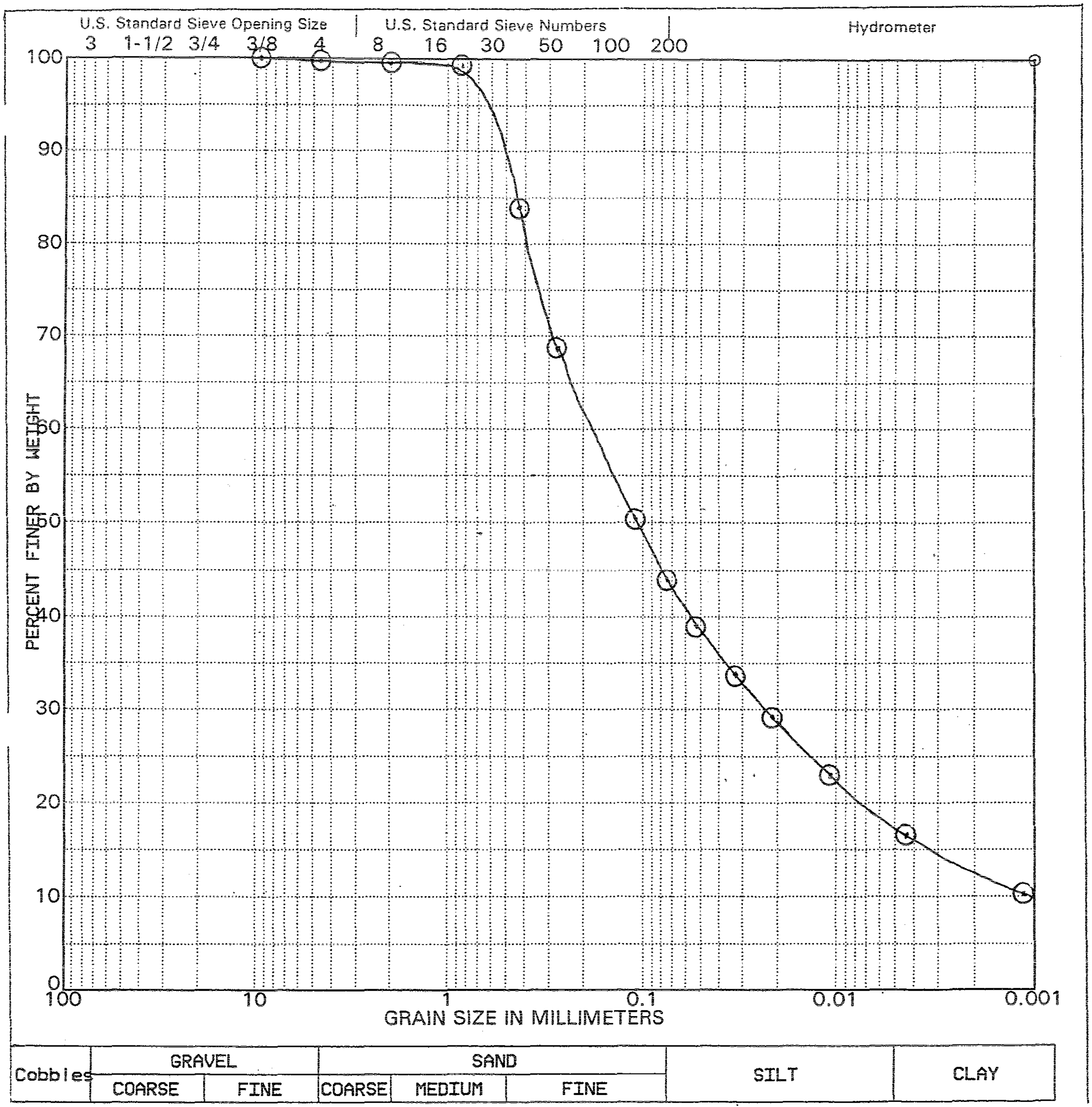

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	0.00	Gravel Total ------------> 0.16
3/8"	0.00	Coarse Sand ----> 0.15
#4	0.16	Medium Sand ----> 15.54
#10	0.15	Fine Sand ------> 39.91
#20	0.18	Sand Total -------------> 55.60
#40	15.36	Silt -----------> 27.23
#60	15.70	Clay -----------> 17.01
#140	18.02	Fines Total ------------> 44.24
#200	6.19	Grand Total ------------> 100.00

SOIL CLASSIFICATION

Brown Clayey Sand (SC)

USDA CLASSIFICATION

Sandy Loam

SAMPLE ID: MKF0033-19 CLIENT: Sequoia Analytical

01Calabazas01

PROJECT ID: MKE0033 - Calabazas DATE: 6/27/01

PLATE 9

PARTICLE SIZE ANALYSIS

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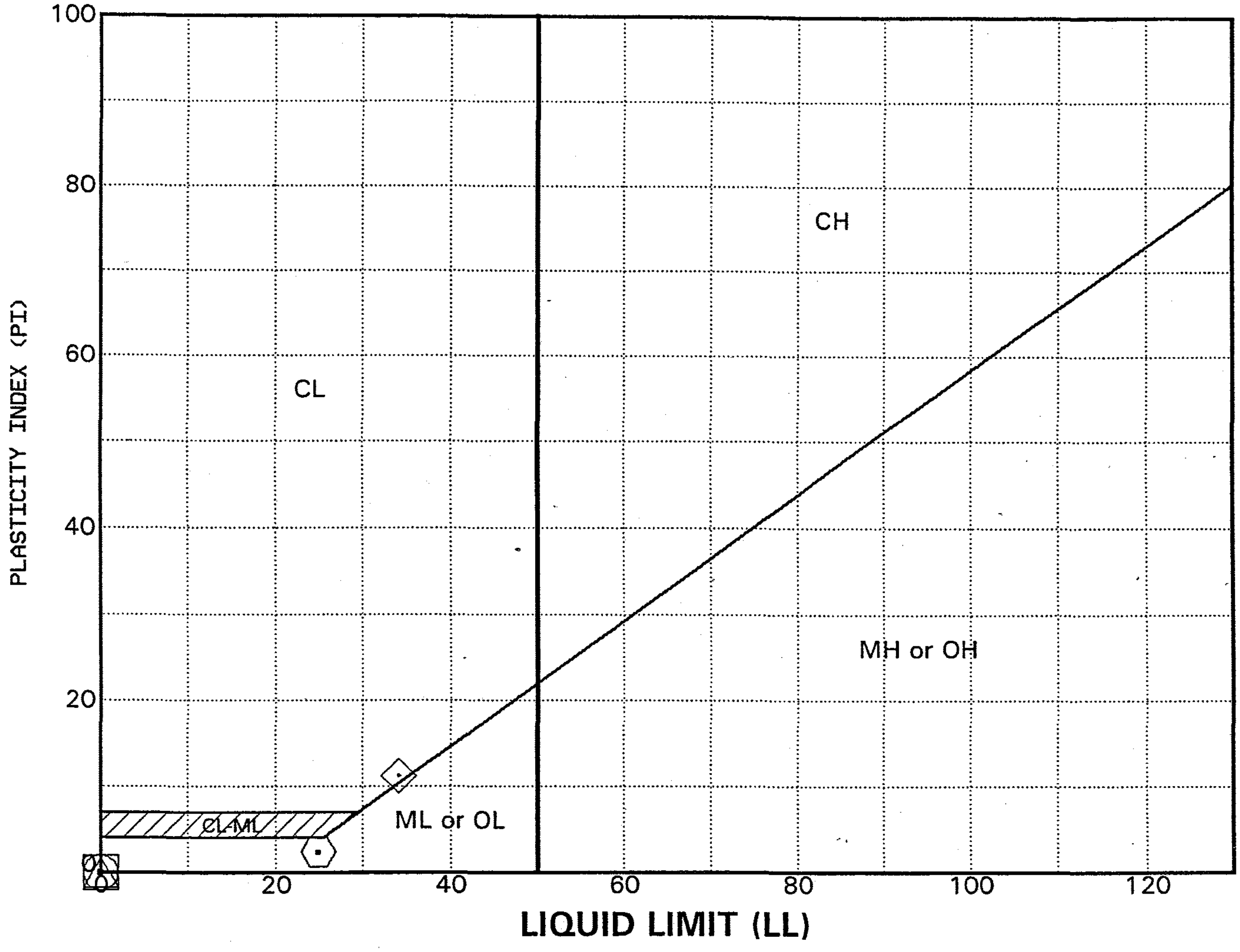


SAMPLE SOURCE	CLASSIFICATION	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
⊙ 01 @ 0.0'	Grey Sand W/Gravel (SP)	NP	NP	NP	
⊡ 04 @ 0.0'	Grey Sand W/Gravel (SP)	NP	NP	NP	
△ 05 @ 0.0'	Grey Sand W/Gravel (SP)	NP	NP	NP	
◇ 08 @ 0.0'	Brown Clayey Sand w/Gravel (SC)	34	23	11	
⬡ 12 @ 0.0'	Brown Silty Sand (SM)	25	23	2	

PLASTICITY CHART

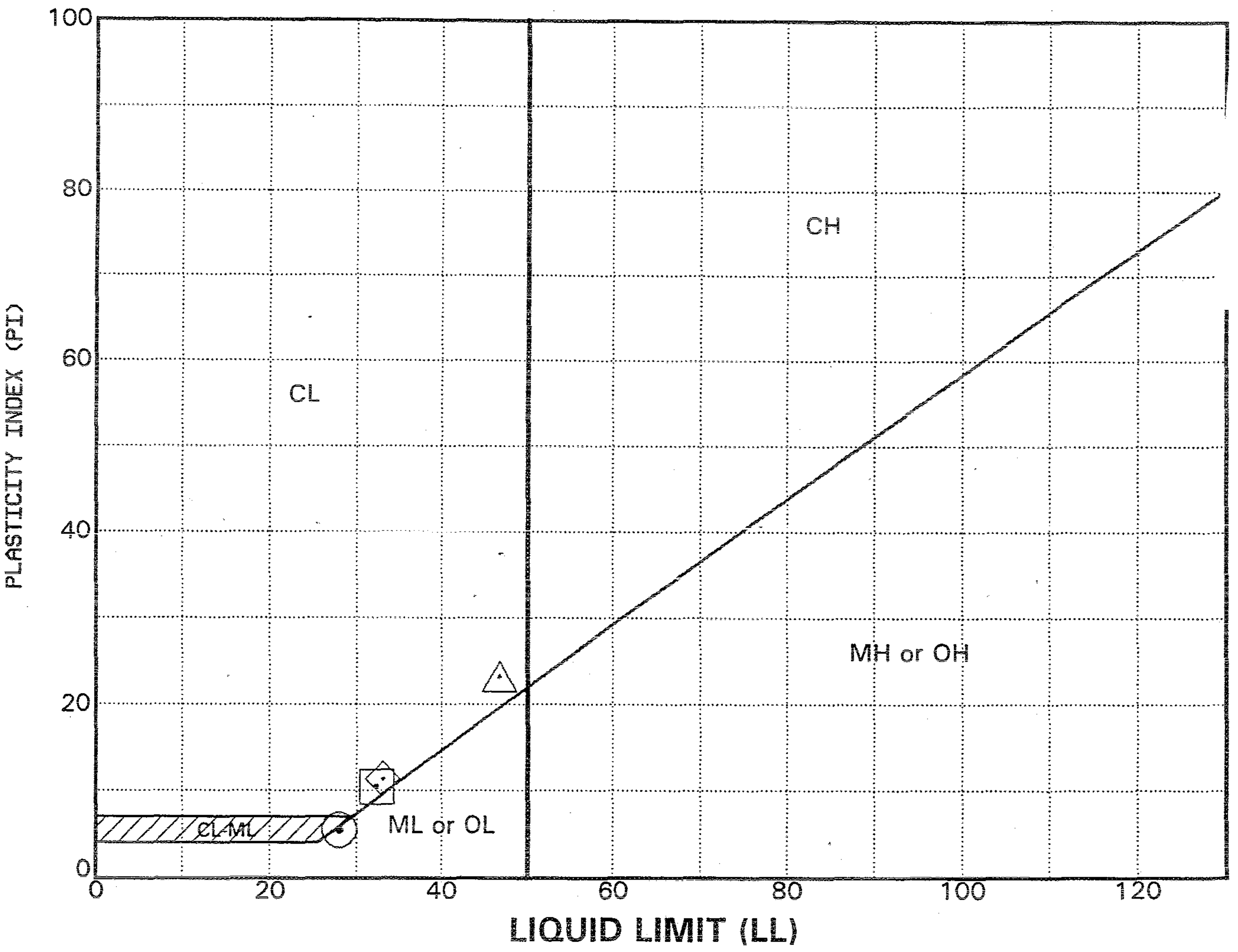
Environmental
Technical
Services

LOCATION: Calabazas
PROJECT: MKF0033
DATE: June 2001

SAMPLE IDs
01 = MKF0033-01 04 = MKF0033-04
05 = MKF0033-05 08 = MKF0033-08
12 = MKF0033-12

PLATE

1



SAMPLE SOURCE	CLASSIFICATION	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
⊙ 13 @ 0.0'	Brown Silty Sand (SM)	28	22	6	
⊡ 14 @ 0.0'	Brown Clayey Sand (SC)	32	22	10	
△ 17 @ 0.0'	Light Brown Sandy Clay (CL)	47	24	23	
◇ 19 @ 0.0'	Brown Clayey Sand (SC)	33	22	11	

PLASTICITY CHART

PLATE

2

Environmental
Technical
Services

LOCATION: Calabazas
PROJECT: MKF0033
DATE: June 2001

SAMPLE IDs
13 = MKF0033-13   14 = MKF0033-14
17 = MKF0033-17   19 = MKF0033-19

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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037				ANALYST(S)	SUPERVISOR
ATTN: Jeff Smyly	DATE	DATE	DATE of	S. Banwait	D. Jacobson
SITE LOCATION: Calera ESC; California	COLLECTED	RECEIVED	REPORT	R. Conrad	LAB DIRECTOR
	6/7/01	6/13/01	7/3/01	J. Nelson	G.Conrad PhD

01CaleraESC01 01CaleraESC CC01

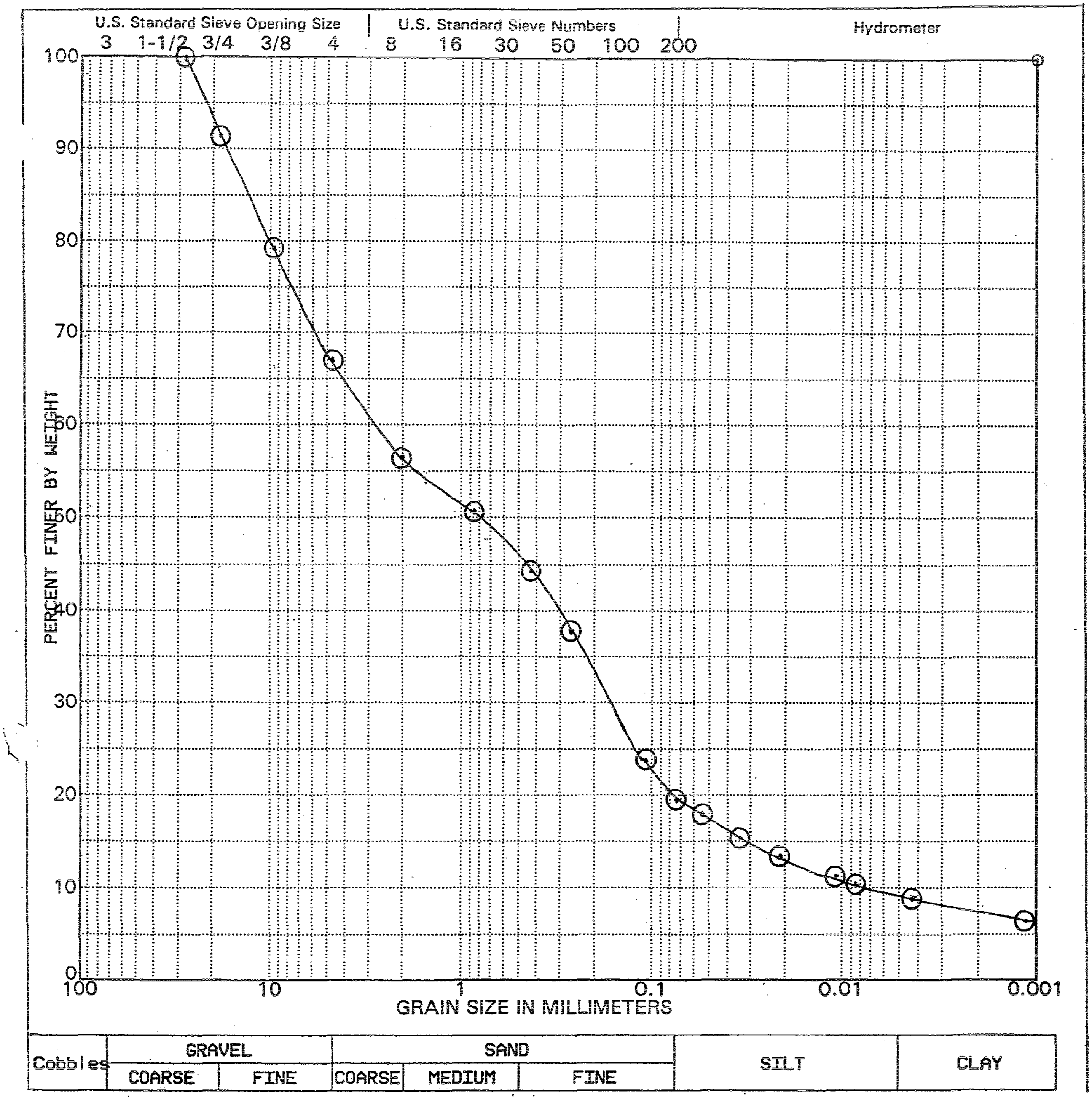
HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0147	SAMPLE ID: MKF0202-01			LAB NUMBER: 01-06-0148	SAMPLE ID: MKF0202-02		
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		92.15	7.85	Coarse Gravel		100.00	10.62	Coarse Gravel
3/8" Sieve		79.12	13.03	Fine Gravel		75.60	8.23	Fine Gravel
Sieve #4		66.96	12.16			59.29	4.93	
Sieve #10		56.82	10.14	Coarse Sand		28.53	3.43	Coarse Sand
Sieve #20		50.60	6.22	Medium Sand		9.40	1.97	Medium Sand
eve #40		44.89	5.71			2.13	1.43	
Sieve #60		37.68	7.21	Fine Sand		0.33	4.02	Fine Sand
Sieve #140		23.86	13.82			0.12	21.39	
Sieve #200		19.74	4.12			0.08	6.14	
SILT (0.074)	√ 11.11			SILT (0.074)	√ 22.44			Mud (Silt & Clay)
		Grvl Total->	*33.04*			*Grvl Total->*	*23.78*	
CLAY (0.005)	8.63	*Sand Total->*	*47.22*	CLAY (0.005)	15.40	*Sand Total->*	*38.38*	
		Fines Total->	*19.74*			*Fines Total->*	*37.84*	
		Sum Total->	*100.00*			*Sum Total->*	*100.00*	

************************************ COMMENTS ************************************

These two samples have similar high gravel content, but end up in different classes due to differences in sand and mud percentages. The mud content of one sample (-02) is high enough that this is the dominant texture as concerns classification (i.e., Atterbergs); the other sample has enough sand that sand is the dominant texture. As a result, one is a silty clayey sand with gravel (-01), while the other is a sandy clay with gravel (-02). They would occupy different positions within sand bar (or possibly flood bank) deposits, but both are indicative of high energy a good part of the time as well as moderate to low energy some of the time.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet eved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	7.85	Gravel Total ----------->	33.04
3/8"	13.03	Coarse Sand ---->	10.14
#4	12.16	Medium Sand ---->	11.93
#10	10.14	Fine Sand ------>	25.15
#20	6.22	Sand Total ------------->	47.22
#40	5.71	Silt ----------->	11.11
#60	7.21	Clay ----------->	8.63
#140	13.82	Fines Total ------------>	19.74
#200	4.12	Grand Total ------------>	100.00

ASTM CLASSIFICATION

Brown Silty Clayey Sand w/ gravel (SC-SM)

USDA CLASSIFICATION

Sandy Loam

SAMPLE ID: MKF0202-01 CLIENT: Sequoia Analytical

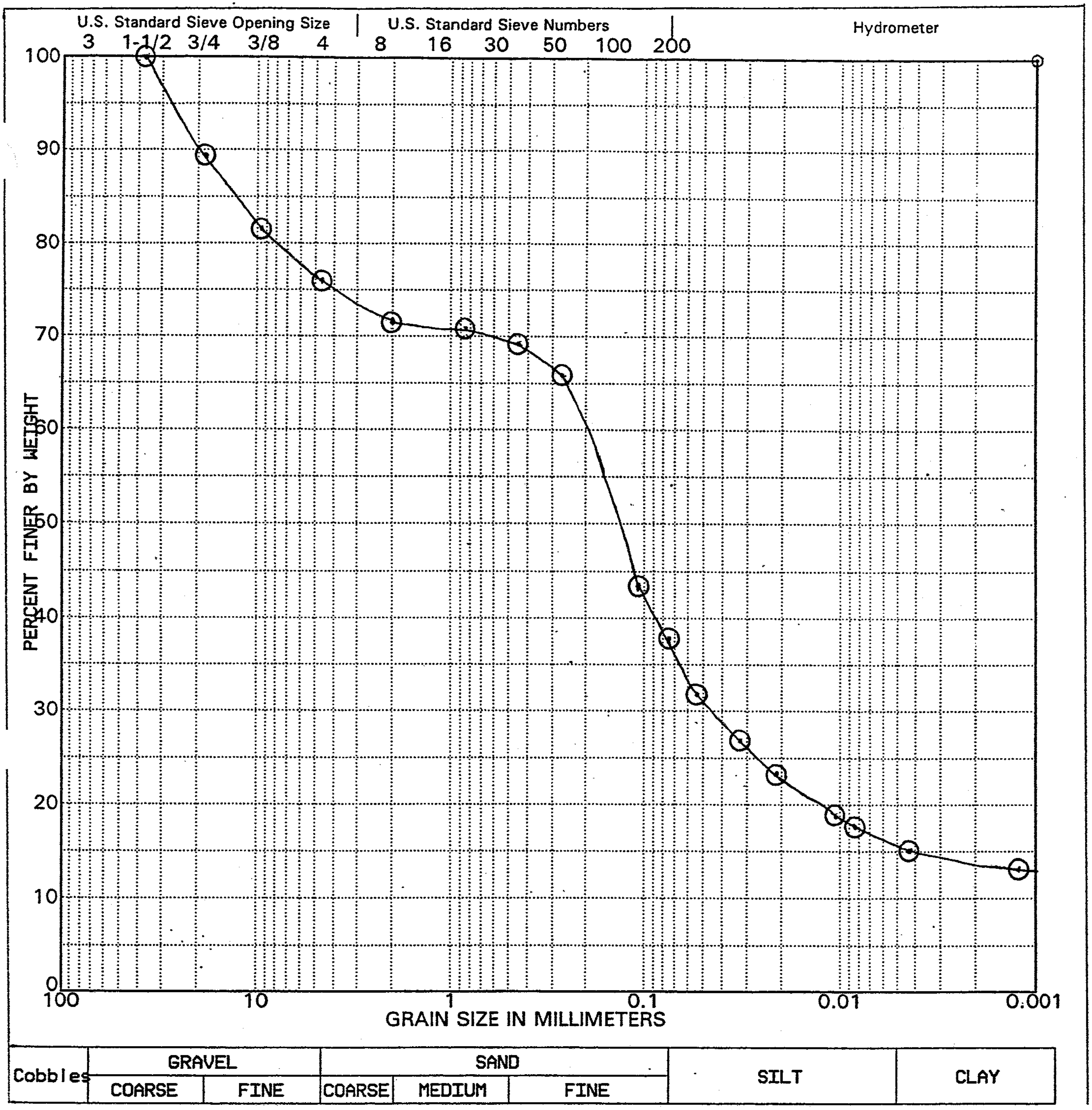
01 Calera ESC 01

PROJECT ID: MKF0202 - Calera ESC DATE: 7/03/01

PLATE 1

PARTICLE SIZE ANALYSIS

E T S



SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	10.62	Gravel Total ------------>	23.78
3/8"	8.23	Coarse Sand ---->	3.43
#4	4.93	Medium Sand ---->	3.40
#10	3.43	Fine Sand ------>	31.55
#20	1.97	Sand Total -------------->	38.38
#40	1.43	Silt ------------>	22.44
#60	4.02	Clay ------------>	15.40
#140	21.39	Fines Total ------------->	37.84
#200	6.14	Grand Total ------------->	100.00

ASTM CLASSIFICATION

Brown Sandy Clay w/ gravel (CL)

USDA CLASSIFICATION

Loam

SAMPLE ID: MKF0202-02 CLIENT: Sequoia Analytical

01 Calera ESC CC01

PROJECT ID: MKF0202 - Calera ESC DATE: 7/03/01

PLATE 2

PARTICLE SIZE ANALYSIS

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ATTN: Jeff Smyly	DATE COLLECTED	DATE RECEIVED	DATE of REPORT	S. Banwait R. Conrad J. Nelson	D. Jacobson
SITE LOCATION: Calera Mill; California	6/7/01	6/13/01	7/3/01		LAB DIRECTOR G.Conrad PhD

01\Caleramil\01

01Caleramil
CC01

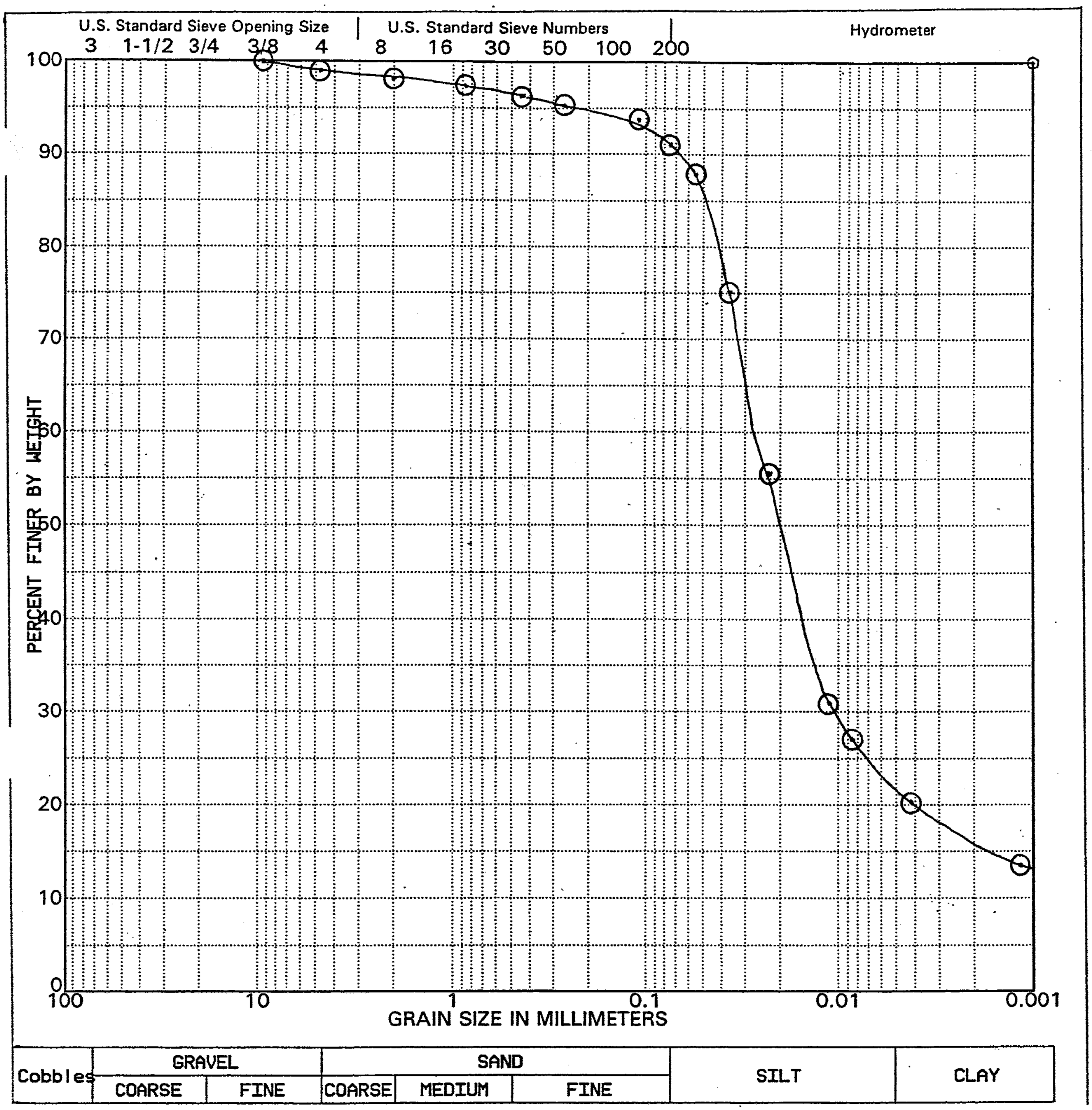
HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0145	SAMPLE ID: MKF0199-01			LAB NUMBER: 01-06-0146	SAMPLE ID: MKF0199-02		
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel		100.00	0.00	Coarse Gravel
3/8" Sieve		100.00	0.00	Fine Gravel		100.00	0.00	Fine Gravel
Sieve #4		99.01	0.99			59.29	5.34	
Sieve #10		98.55	0.46	Coarse Sand		28.53	3.38	Coarse Sand
Sieve #20		98.19	0.36	Medium Sand		9.40	4.10	Medium Sand
eve #40		96.15	2.04			2.13	3.12	
Sieve #60		95.29	0.86	Fine Sand		0.33	3.78	Fine Sand
Sieve #140		88.65	6.64			0.12	13.94	
Sieve #200		81.41	7.24			0.08	4.20	
SILT (0.074)	√ 59.46			SILT (0.074)	√ 47.00			Mud
		Grvl Total->	*0.99*			*Grvl Total->*	*5.34*	
CLAY (0.005)	21.95	*Sand Total->*	*17.60*	CLAY (0.005)	15.14	*Sand Total->*	*32.52*	(Silt & Clay)
		Fines Total->	*81.41*			*Fines Total->*	*62.14*	
		Sum Total->	*100.00*			*Sum Total->*	*100.00*	

********************************** COMMENTS ************************************

These two samples are both silt deposits, but vary in their sand (and gravel) percentages enough that they classify slightly differently (in ASTM and USDA); the gravel content is greater in one but still below the required 15% necessary to modify the class. Both represent broadly similar deposits indicative of low energy flow regimes with occasional moderate energy input (in both) ranging to high energy in one case (-02). These are slack water deposits of pools and downstream bar locations; or near channel overbank deposits with one sample being closer in (-02) than the other (-01).

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet eved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total ----------->	0.99
3/8"	0.00	Coarse Sand ---->	0.46
#4	0.99	Medium Sand ---->	2.40
#10	0.46	Fine Sand ------>	14.74
#20	0.36	Sand Total ------------->	17.60
#40	2.04	Silt ----------->	59.46
#60	0.86	Clay ----------->	21.95
#140	6.64	Fines Total ------------>	81.41
#200	7.24	Grand Total ------------>	100.00

ASTM CLASSIFICATION

Brown Silt w/ sand (MH)

USDA CLASSIFICATION

Silt Loam

SAMPLE ID: MKF0199-01 CLIENT: Sequoia Analytical

01calera Mill 01

PROJECT ID: MKF0199 - Calera Mill DATE: 7/03/01

PLATE **1**

PARTICLE SIZE ANALYSIS

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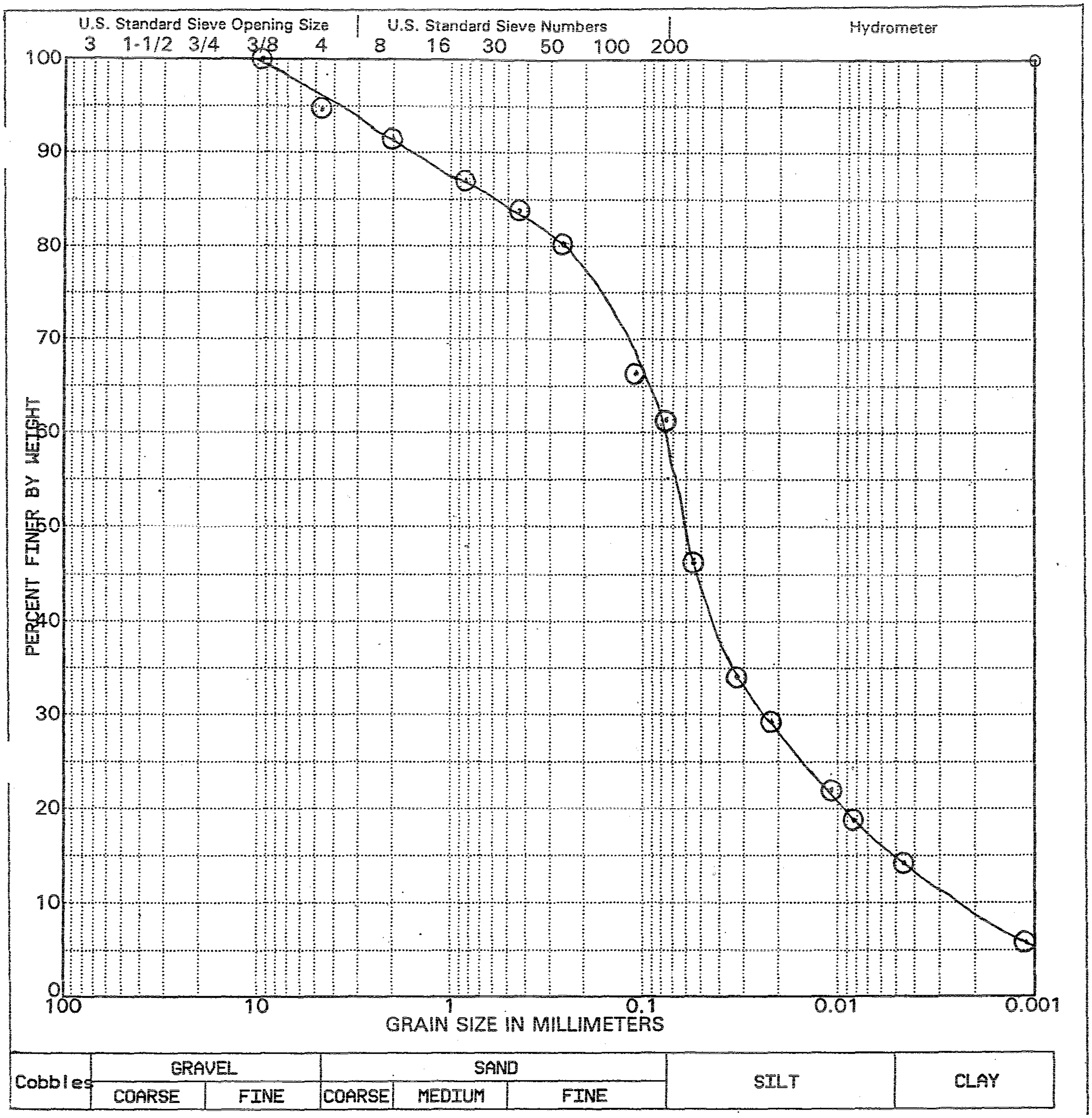

SIEVE #	% FRACTION
3/4"	0.00
3/8"	0.00
#4	5.34
#10	3.38
#20	4.10
#40	3.12
#60	3.78
#140	13.94
#200	4.24

TEXTURAL CLASSES & PERCENTAGES	
Gravel Total ------------>	5.34
Coarse Sand ---->	3.38
Medium Sand ---->	7.22
Fine Sand ------->	21.92
Sand Total -------------->	32.52
Silt ------------>	47.00
Clay ------------>	15.14
Fines Total ------------->	62.14
Grand Total ------------->	100.00

ASTM CLASSIFICATION

Dark Brown Sandy Silt (MH)

USDA CLASSIFICATION

Loam

SAMPLE ID: MKF0199-02 CLIENT: Sequoia Analytical

olCaleramil CC01

PROJECT ID: MKF0199 - Calera Mill DATE: 7/03/01

PLATE 2

PARTICLE SIZE ANALYSIS

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ATTN: Jeff Smyly
SITE LOCATION: Canoas; California

DATE COLLECTED	DATE RECEIVED	DATE of REPORT	ANALYST(S)	SUPERVISOR
			S. Banwait	D. Jacobson
			R. Conrad	LAB DIRECTOR
6/8/01	6/15/01	7/11/01	J. Nelson	G.Conrad PhD

01Canoas01

01Canoas CC01

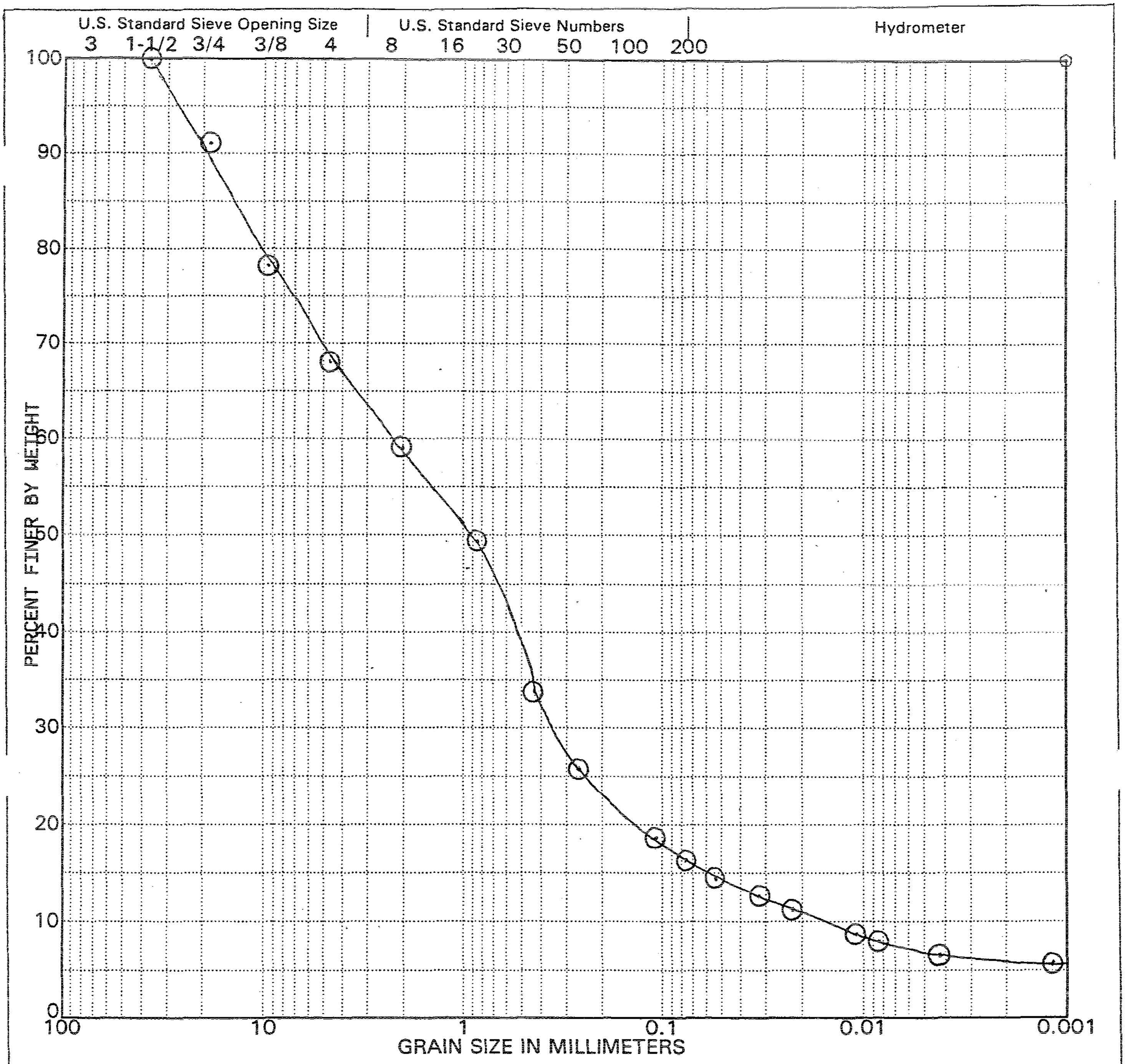
HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0242	SAMPLE ID:	MKF0272-01		LAB NUMBER: 01-06-0243	SAMPLE ID:	MKF0272-02	
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		90.76	9.24	Coarse Gravel		97.76	2.24	Coarse Gravel
3/8" Sieve		78.02	12.74	Fine Gravel		89.99	7.77	Fine Gravel
Sieve #4		67.86	10.16			74.93	15.06	
Sieve #10		59.21	8.65	Coarse Sand		64.04	10.89	Coarse Sand
Sieve #20		49.84	9.37	Medium Sand		50.80	13.24	Medium Sand
.eve #40		34.13	15.71			33.70	17.10	
Sieve #60		25.36	8.77	Fine Sand		22.06	11.64	Fine Sand
Sieve #140		18.30	7.06			15.78	6.78	
Sieve #200		16.49	1.81			14.25	1.03	
SILT (0.074)	√ 9.42			SILT (0.074)	√ 8.50			Mud
		Grvl Total->	*32.14*			*Grvl Total->*	*25.07*	
CLAY (0.005)	7.07	*Sand Total->*	*51.37*	CLAY (0.005)	5.75	*Sand Total->*	*60.68*	(Silt & Clay)
		Fines Total->	*16.49*			*Fines Total->*	*14.25*	
		Sum Total->	*100.00*			*Sum Total->*	*100.00*	

************************************ COMMENTS ************************************

These samples are very similar except that one classifies as a clayey sand (i.e., the clay is dominant), while the other classifies as a silty sand; both have similar significant gravel and mud. As a result, both appear to represent very similar depositional regimes where the dominant energy is moderate, but the total range is very low to (just barely) high. They may represent similar parts of sand bar depositional sequences, or perhaps mid-distance over-bank deposits.

\ NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet ieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	9.24	Gravel Total ------------>	32.14
3/8"	12.74	Coarse Sand ---->	8.65
#4	10.16	Medium Sand ---->	25.08
#10	8.65	Fine Sand ------>	17.64
#20	9.37	Sand Total -------------->	51.37
#40	15.71	Silt ----------->	9.42
#60	8.77	Clay ----------->	7.07
#140	7.06	Fines Total ------------->	16.49
#200	1.81	Grand Total ------------->	100.00

ASTM CLASSIFICATION

Gray Black Clayey Sand w/ gravel (SC)

USDA CLASSIFICATION

Sandy Loam

SAMPLE ID: MKF0272-01 CLIENT: Sequoia Analytical

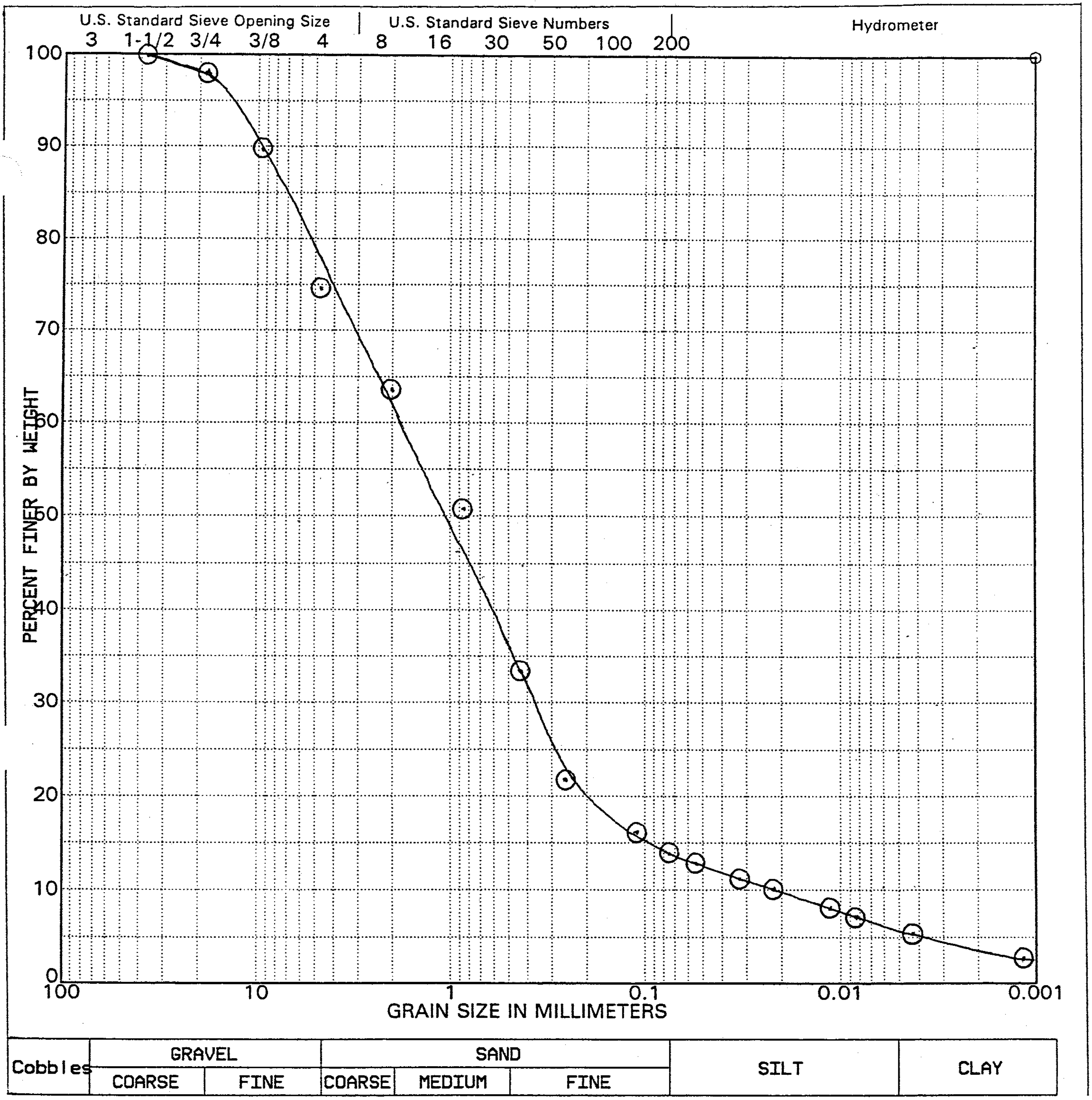
01Canoas01

PROJECT ID: MKF0272 - Canoas DATE: 7/11/01

PLATE **1**

PARTICLE SIZE ANALYSIS

E T S



SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	2.24	Gravel Total ------------>	25.07
3/8"	7.77	Coarse Sand ---->	10.89
#4	15.06	Medium Sand ---->	30.34
#10	10.89	Fine Sand ------>	19.45
#20	13.24	Sand Total -------------->	60.68
#40	17.10	Silt ----------->	8.50
#60	11.64	Clay ----------->	5.75
#140	6.78	Fines Total ------------->	14.25
#200	1.03	Grand Total ------------->	100.00

ASTM CLASSIFICATION

Gray Black Silty Sand w/ gravel (SM)

USDA CLASSIFICATION

Loamy Sand

SAMPLE ID: MKF0272-02 CLIENT: Sequoia Analytical

01 Canoas CC01

PROJECT ID: MKF0272 - Canoas DATE: 7/11/01

PLATE 2

PARTICLE SIZE ANALYSIS

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COMPANY: Sequoia Analytical, 885 Jarvis Drive, Morgan Hill, CA 95037			ANALYST(S)	SUPERVISOR
ATTN: Jeff Smyly	DATE COLLECTED	DATE RECEIVED	DATE of REPORT	S. Banwait	D. Jacobson
SITE LOCATION: Coyote; California	6/12/01	6/15/01	7/11/01	R. Conrad J. Nelson	LAB DIRECTOR G.Conrad PhD

01Coyote01 01Coyote CC01

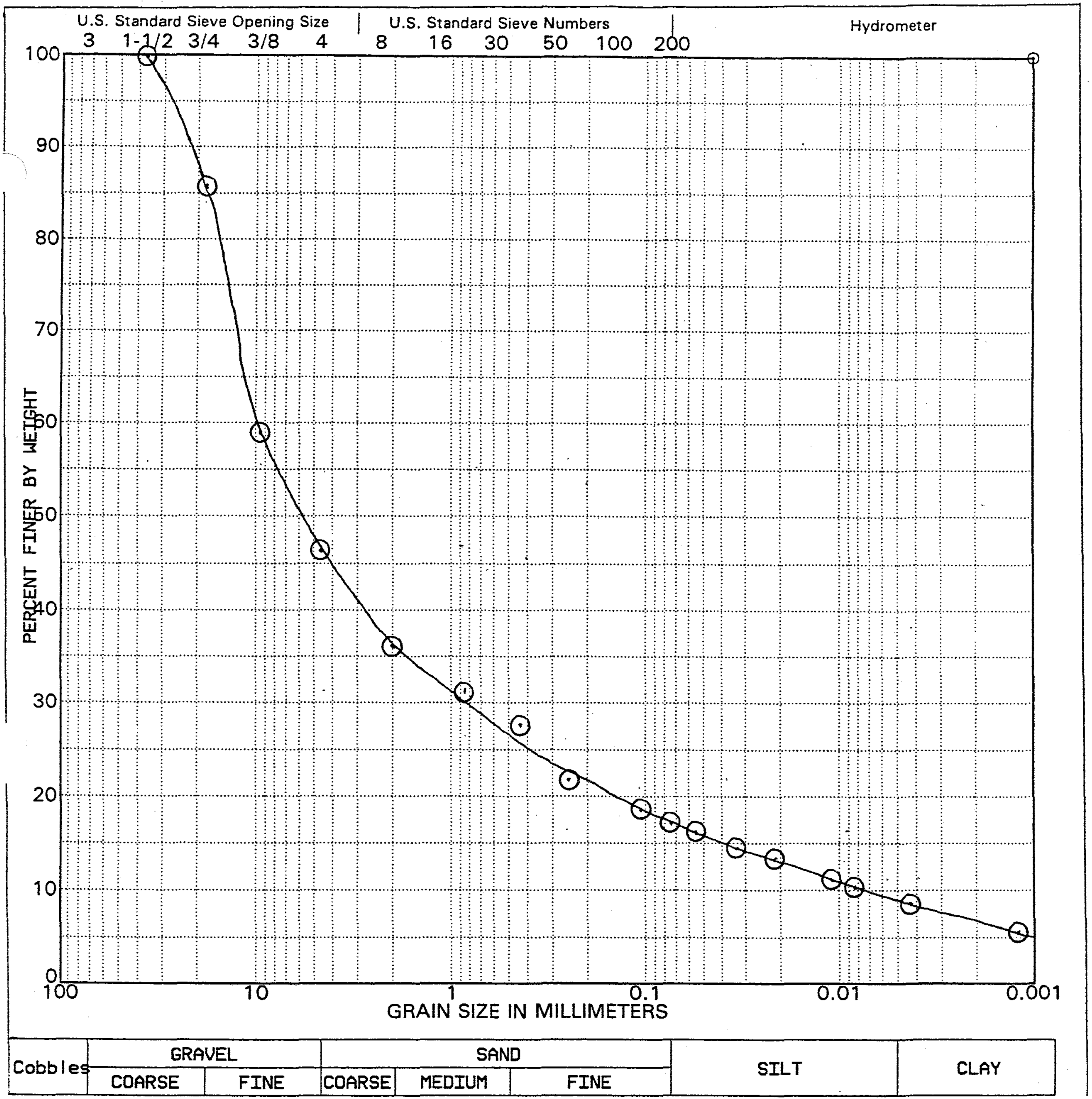
HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0244	SAMPLE ID: MKF0287-01			LAB NUMBER: 01-06-0245	SAMPLE ID: MKF0287-02		
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		85.28	14.72	Coarse Gravel		93.71	6.29	Coarse Gravel
3/8" Sieve		57.99	27.29	Fine Gravel		60.58	33.13	Fine Gravel
Sieve #4		46.18	11.81			42.06	18.52	
Sieve #10		35.90	10.28	Coarse Sand		30.67	11.39	Coarse Sand
Sieve #20		31.70	4.20	Medium Sand		25.84	4.83	Medium Sand
ieve #40		27.64	4.06			20.67	5.17	
Sieve #60		22.13	5.51	Fine Sand		16.51	4.16	Fine Sand
Sieve #140		18.65	3.48			13.74	2.77	
Sieve #200		17.40	1.25			12.40	1.34	
SILT (0.074)	√ 8.36			SILT (0.074)	√ 6.54			Mud
		Grvl Total->	*53.82*			*Grvl Total->*	*57.94*	
CLAY (0.005)	9.04	*Sand Total->*	*28.78*	CLAY (0.005)	5.86	*Sand Total->*	*29.66*	(Silt & Clay)
		Fines Total->	*17.40*			*Fines Total->*	*12.40*	
		Sum Total->	*100.00*			*Sum Total->*	*100.00*	

*** COMMENTS ***

Both samples are clayey gravels with very similar textural profiles; there is significant sand (i.e., >15%), and minor but significant mud (i.e., >5%). Both represent similar depositional environments where the dominant energy is high, thus a fast flow regime is indicated. However, part of the time energies subside to moderate (i.e., sand), and even to the low end of the range (i.e., mud). The may represent borderline channel lag deposits where energy levels subside enough part of the time to allow for fines to settle out.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet eved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	14.72	Gravel Total ------------> 53.82
3/8"	27.29	Coarse Sand ----> 10.28
#4	11.81	Medium Sand ----> 8.26
#10	10.28	Fine Sand ------> 10.24
#20	4.20	Sand Total --------------> 28.78
#40	4.06	Silt ------------> 8.36
#60	5.51	Clay ------------> 9.04
#140	3.48	Fines Total -------------> 17.40
#200	1.25	Grand Total -------------> 100.00

ASTM CLASSIFICATION

Gray Clayey Gravel w/ sand (GC)

USDA CLASSIFICATION

Sandy Clay Loam

SAMPLE ID: MKF0287-01 CLIENT: Sequoia Analytical

01Coyote01

PROJECT ID: MKF0287 - Coyote DATE: 7/11/01

PLATE 1

PARTICLE SIZE ANALYSIS

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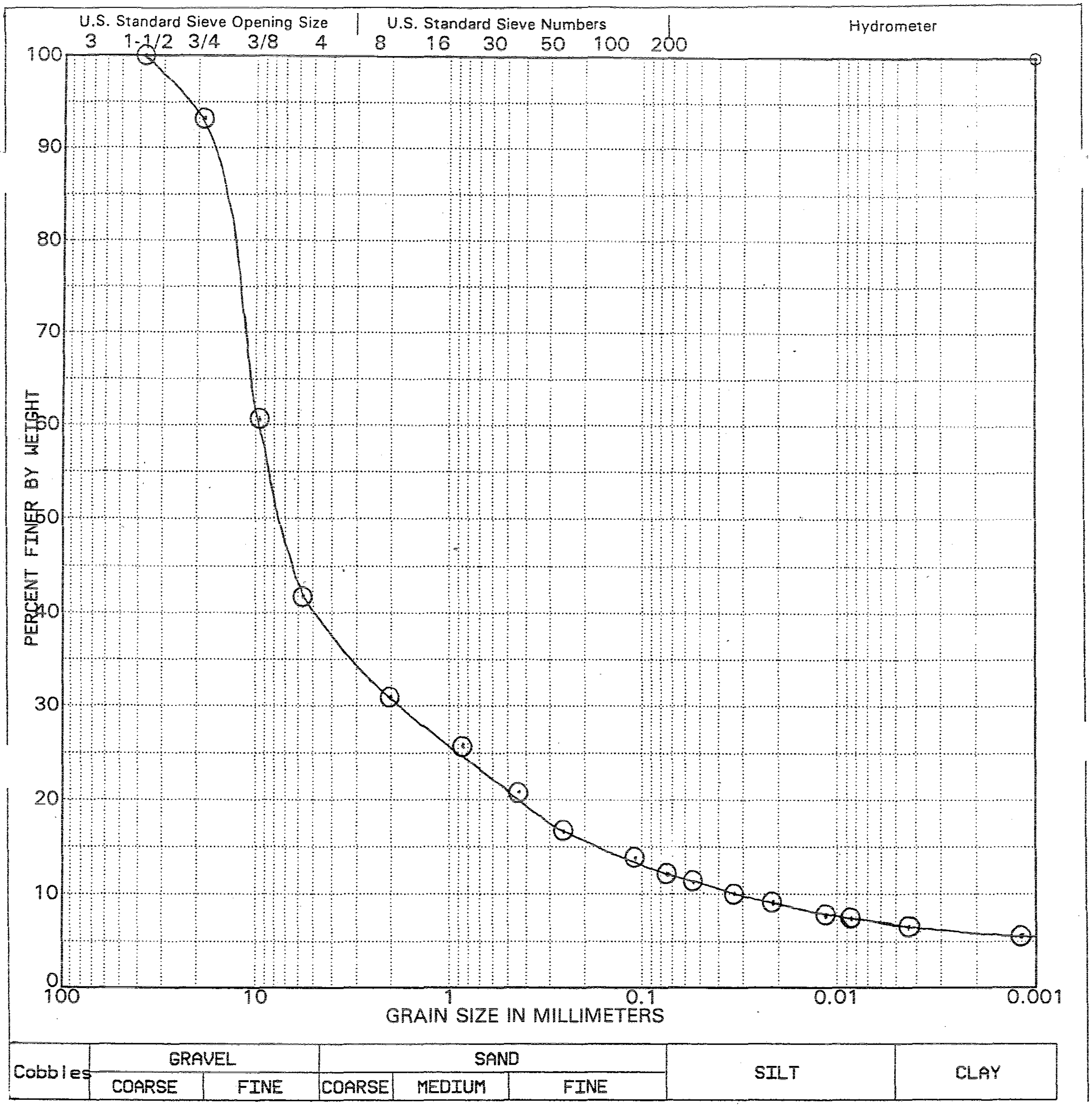

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	6.29	Gravel Total -----------> 57.94
3/8"	33.13	Coarse Sand ----> 11.39
#4	18.52	Medium Sand ----> 10.00
#10	11.39	Fine Sand ------> 8.27
#20	4.83	Sand Total -------------> 29.66
#40	5.17	Silt -----------> 6.54
#60	4.16	Clay -----------> 5.86
#140	2.77	Fines Total ------------> 12.40
#200	1.34	Grand Total ------------> 100.00

ASTM CLASSIFICATION

Gray Clayey Gravel w/ sand (GC)

USDA CLASSIFICATION

Sandy Loam

SAMPLE ID: MKF0287-02 CLIENT: Sequoia Analytical

01CoyoteCC01

PROJECT ID: MKF0287 - Coyote DATE: 7/11/01

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PLATE 2

PARTICLE SIZE ANALYSIS

E T S

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ATTN:	Jeff Smyly	DATE	DATE	DATE of	M. Walker	D. Jacobson
SITE LOCATION:	Flint; California	COLLECTED	RECEIVED	REPORT	R. Conrad	LAB DIRECTOR
		6/14/01	6/20/01	7/13/01	J. Nelson	G.Conrad PhD

01FlintCC01

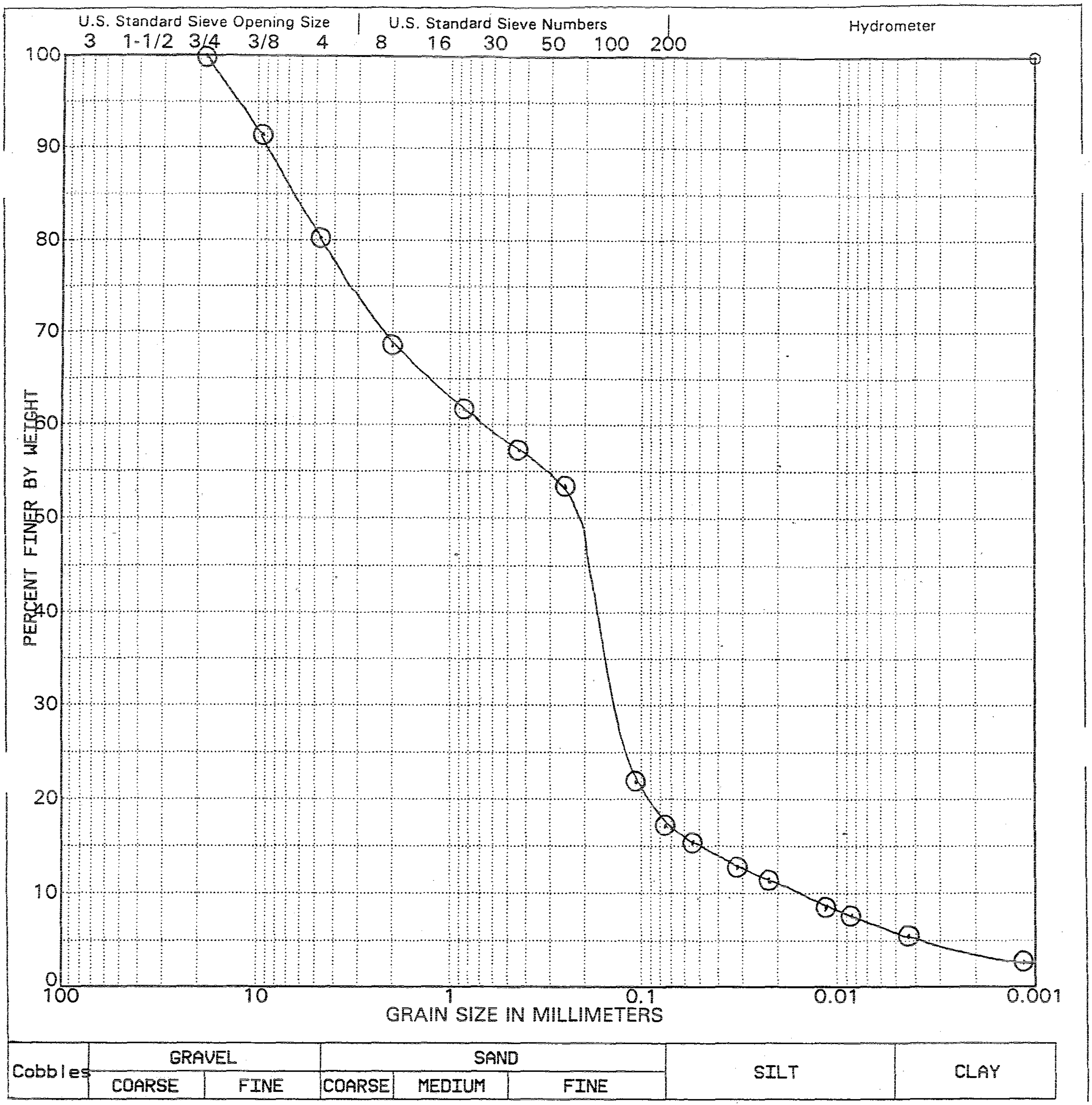
HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0281	SAMPLE ID: MKF0299-01			LAB NUMBER:		SAMPLE ID:	
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel				Coarse Gravel
3/8" Sieve		91.89	8.11	Fine Gravel				Fine Gravel
Sieve #4		80.13	11.76					
Sieve #10		68.85	11.28	Coarse Sand				Coarse Sand
Sieve #20		62.05	6.80	Medium Sand				Medium Sand
ieve #40		57.46	4.59					
Sieve #60		48.81	8.65	Fine Sand				Fine Sand
Sieve #140		21.80	27.01					
Sieve #200		17.41	4.39					
SILT (0.074)	√ 11.85			MUD (Silt + Clay)	√			Mud (Silt & Clay)
		Grvl Total->	*19.87*			*Grvl Total->*	*0.00*	
CLAY (0.005)	5.56	*Sand Total->*	*62.72*			*Sand Total->*	*0.00*	
		Fines Total->	*17.41*			*Fines Total->*	*0.00*	
		Sum Total->	*100.00*			*Sum Total->*	*0.00*	

********************************** COMMENTS **********************************

This sample classifies as silty sand with gravel, but notice the mud content is almost as much as gravel. This is mostly a moderate energy deposit, but runs the range from low to high energy with changing conditions. It may be typical sand bar probably more indicative of downstream rather than upstream deposits

\\\ NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet ved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total ----------->	19.87
3/8"	8.11	Coarse Sand ---->	11.28
#4	11.76	Medium Sand ---->	11.39
#10	11.28	Fine Sand ------>	40.05
#20	6.80	Sand Total ------------->	62.72
#40	4.59	Silt ----------->	11.85
#60	8.65	Clay ----------->	5.56
#140	27.01	Fines Total ------------>	17.41
#200	4.39	Grand Total ------------>	100.00

ASTM CLASSIFICATION

Brown Silty Sand w/ gravel (SM)

USDA CLASSIFICATION

Loamy Sand

SAMPLE ID: MKF0299-01 CLIENT: Sequoia Analytical

01FlintCC01

PROJECT ID: MKF0299 - Flint DATE: 7/13/01

PLATE 1

PARTICLE SIZE ANALYSIS

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ATTN: Jeff Smyly
SITE LOCATION: Guadalupe; California

DATE COLLECTED	DATE RECEIVED	DATE of REPORT	ANALYST(S)	SUPERVISOR
6/12/01	6/13/01	7/6/01	S. Banwait R. Conrad J. Nelson	D. Jacobson LAB DIRECTOR G.Conrad PhD

01Guadalupe.01 01Guadalupe02

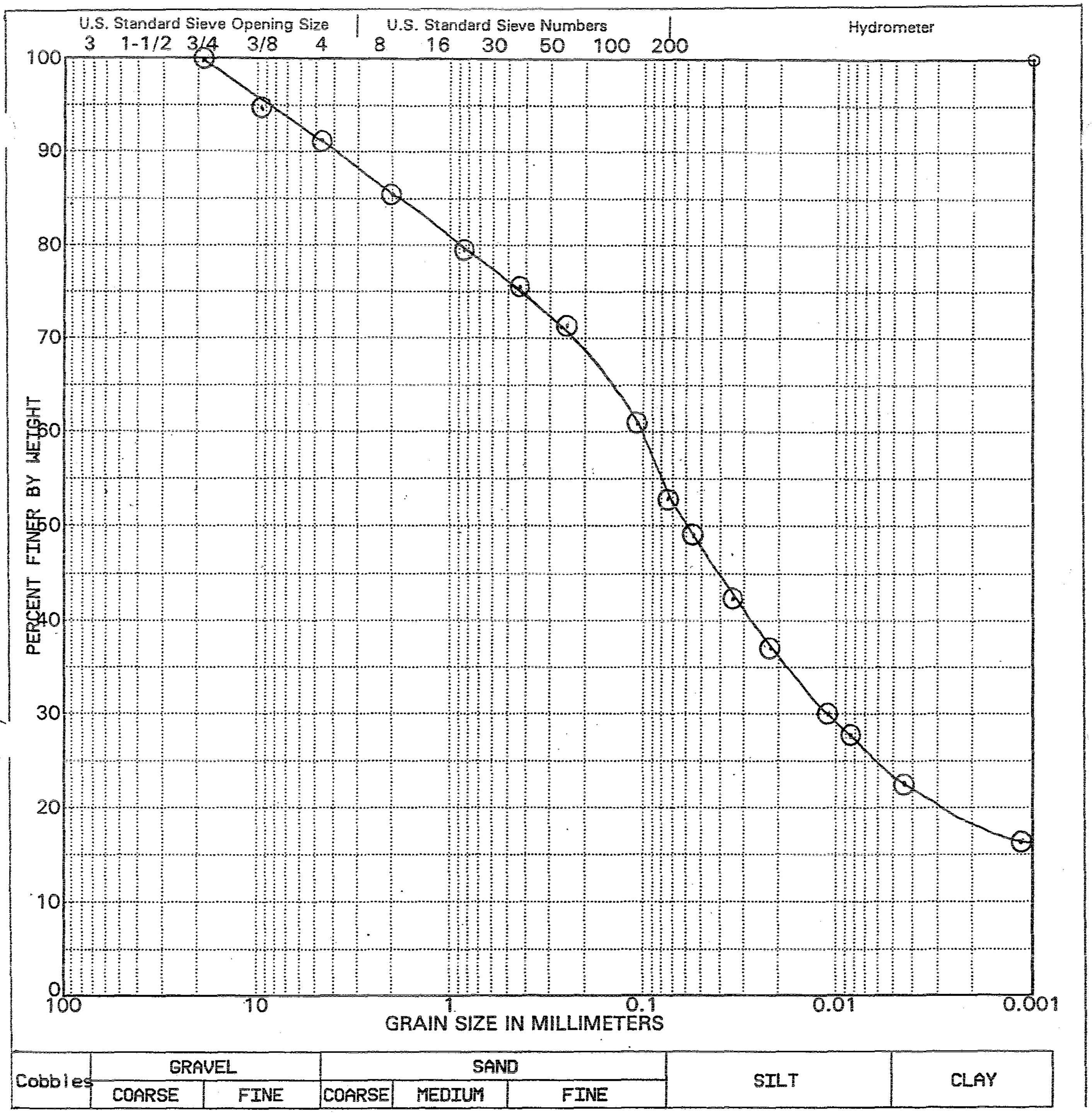
HYDROMETER & SIEVE ANALYSIS REPORT

SIEVE SIZE (SCREEN #)	LAB NUMBER: 01-06-0154		SAMPLE ID: MKF0274-01		LAB NUMBER: 01-06-0155		SAMPLE ID: MKF0274-02	
	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel		100.00	0.00	Coarse Gravel
3/8" Sieve		94.77	5.23	Fine Gravel		100.00	0.00	Fine Gravel
Sieve #4		91.07	3.70			97.36	2.64	
Sieve #10		85.28	5.79	Coarse Sand		95.51	1.85	Coarse Sand
Sieve #20		79.78	5.50	Medium Sand		94.08	1.43	Medium Sand
eve #40		75.97	3.81			90.86	3.22	
Sieve #60		71.58	4.39	Fine Sand		84.59	6.27	Fine Sand
Sieve #140		60.61	10.97			66.89	17.70	
Sieve #200		53.75	6.86			59.33	7.56	
SILT (0.074)	√ 30.58			SILT (0.074)	√ 37.56			Mud
		Grvl Total->	*8.93*			*Grvl Total->*	*2.64*	
CLAY (0.005)	23.17	*Sand Total->*	*37.32*	CLAY (0.005)	21.77	*Sand Total->*	*38.03*	(Silt & Clay)
		Fines Total->	*53.75*			*Fines Total->*	*59.33*	
		Sum Total->	*100.00*			*Sum Total->*	*100.00*	

************************************ COMMENTS ************************************

These two samples are both sandy clay deposits with negligible to minor gravel content. Notice that major class percentages parallel one another fairly closely. As a result, both classify the same in two systems, i.e., ASTM and USDA (which omits gravel in any case). Therefore, both represent very similar depositional situations indicative of mostly low energy flow regimes with occasional moderate energy input. These are slack water deposits of pools and downstream bar locations; or perhaps near channel overbank deposits.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet ved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	% FRACTION
3/4"	0.00
3/8"	5.23
#4	3.70
#10	5.79
#20	5.50
#40	3.81
#60	4.39
#140	10.97
#200	6.86

TEXTURAL CLASSES & PERCENTAGES

Gravel Total -----------> 8.93
Coarse Sand ----> 5.79
Medium Sand ----> 9.31
Fine Sand ------> 22.22
Sand Total --------------> 37.32
Silt -----------> 30.58
Clay -----------> 23.17
Fines Total ------------> 53.75
Grand Total ------------> 100.00

ASTM CLASSIFICATION

Brown Sandy Clay
(CL)

USDA CLASSIFICATION

Loam

SAMPLE ID: MKF0274-01 CLIENT: Sequoia Analytical

01Guadalupe01

PROJECT ID: MKF0274 - Guadalupe DATE: 7/06/01

PLATE 1

PARTICLE SIZE ANALYSIS

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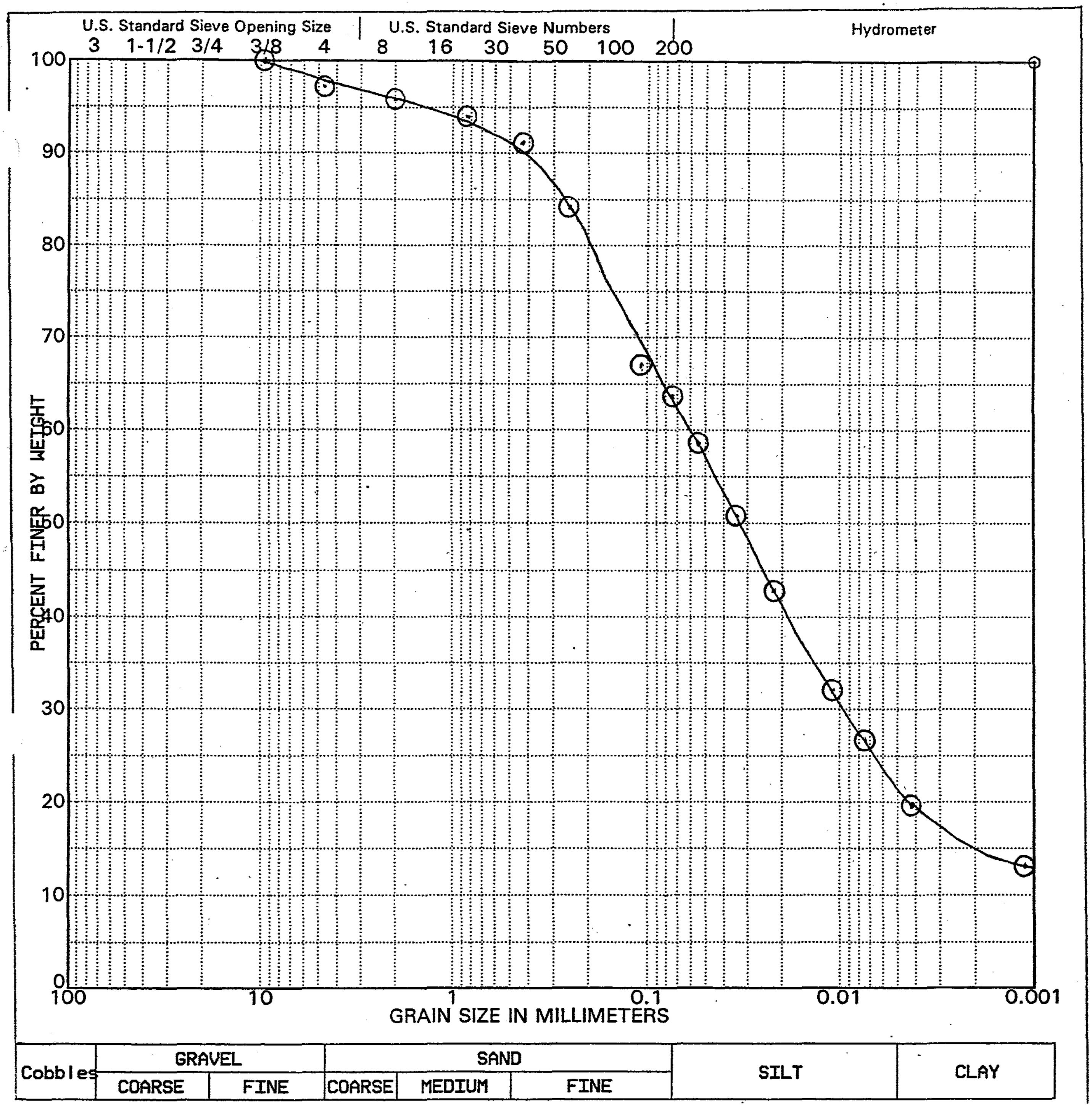

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	0.00	Gravel Total ------------> 2.64
3/8"	0.00	Coarse Sand ----> 1.85
#4	2.64	Medium Sand ----> 4.65
#10	1.85	Fine Sand ------> 31.53
#20	1.43	Sand Total --------------> 38.03
#40	3.22	Silt ------------> 37.56
#60	6.27	Clay ------------> 21.77
#140	17.70	Fines Total -------------> 59.33
#200	7.56	Grand Total -------------> 100.00

ASTM CLASSIFICATION

Brown Sandy Clay (CL)

USDA CLASSIFICATION

Loam

SAMPLE ID: MKF0274-02 CLIENT: Sequoia Analytical

01Guadalupe02

PROJECT ID: MKF0274 - Guadalupe DATE: 7/06/01

PLATE 2

PARTICLE SIZE ANALYSIS

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ATTN: Jeff Smyly
SITE LOCATION: Guadalupe; California

DATE COLLECTED	DATE RECEIVED	DATE of REPORT	ANALYST(S)	SUPERVISOR
6/12/01	6/13/01	7/6/01	S. Banwait R. Conrad J. Nelson	D. Jacobson LAB DIRECTOR G.Conrad PhD

01Guadalupe03 01GuadalupeCC03

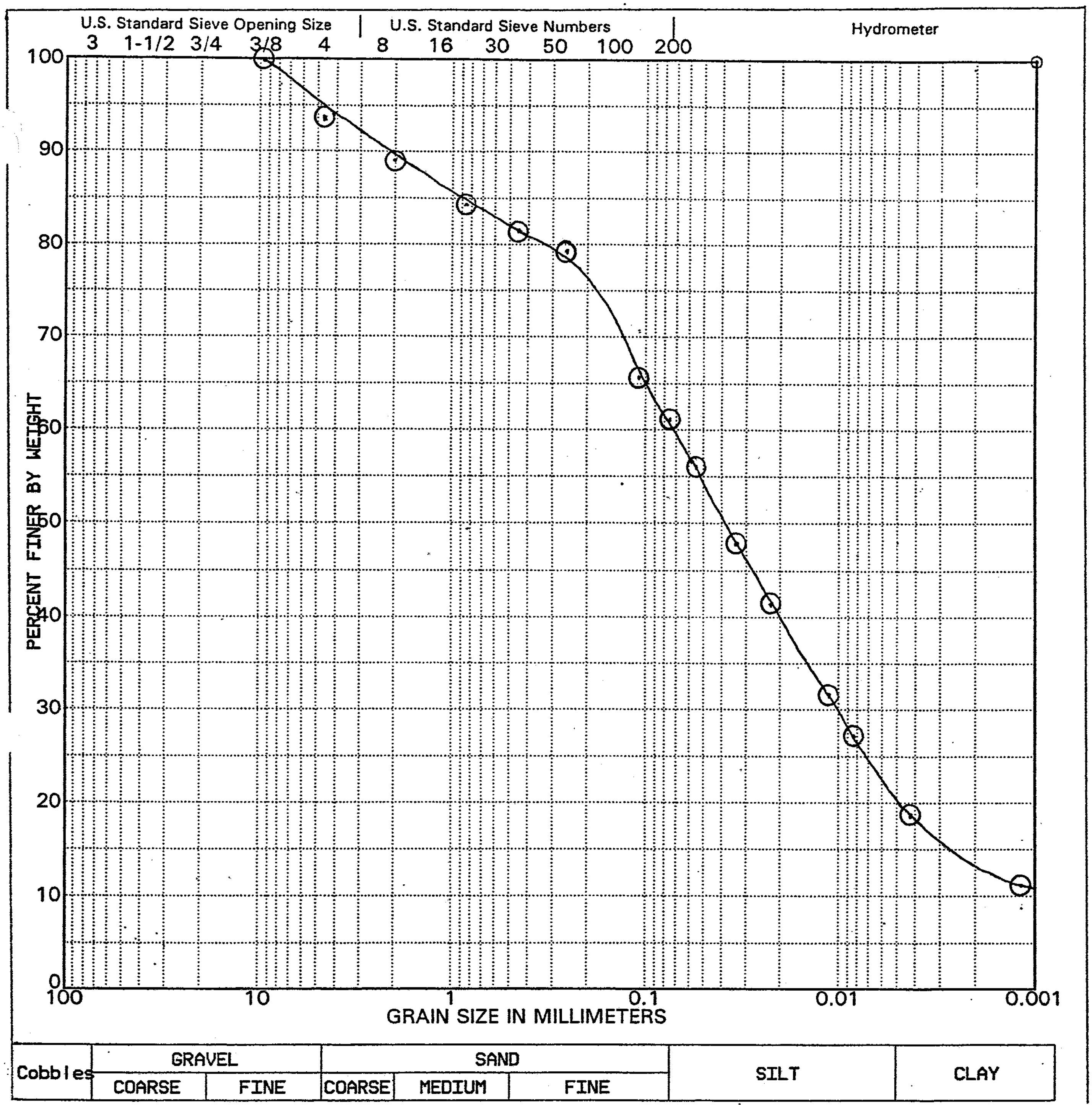
HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0156	SAMPLE ID: MKF0274-03			LAB NUMBER: 01-06-0157	SAMPLE ID: MKF0274-06		
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel		100.00	0.00	Coarse Gravel
3/8" Sieve		100.00	0.00	Fine Gravel		98.90	1.10	Fine Gravel
Sieve #4		93.53	6.47			97.64	1.26	
Sieve #10		89.21	4.32	Coarse Sand		95.73	1.91	Coarse Sand
Sieve #20		84.45	4.76	Medium Sand		94.11	1.62	Medium Sand
Sieve #40		82.08	2.42			90.93	3.18	
Sieve #60		79.82	2.21	Fine Sand		87.19	3.74	Fine Sand
Sieve #140		65.17	14.65			68.66	18.53	
Sieve #200		61.16	4.01			65.00	3.66	
SILT (0.074)	√ 40.85			SILT (0.074)	√ 51.44			Mud
		Grvl Total->	*6.47*			*Grvl Total->*	*2.36*	
CLAY (0.005)	20.31	*Sand Total->*	*32.37*	CLAY (0.005)	13.56	*Sand Total->*	*32.64*	(Silt & Clay)
		Fines Total->	*61.16*			*Fines Total->*	*65.00*	
		Sum Total->	*100.00*			*Sum Total->*	*100.00*	

************************************ COMMENTS ************************************

These two samples are broadly similar but differ in the amount of silt present; the first is essentially the same as the two previous sample (i.e., -01 & -02). As a result of the higher silt in the second sample (-06) it classifies as a sandy silt, while the other remains a sandy clay (i.e., the same as the previous two samples). Even so, both still represent fairly similar deposits indicative of low energy flow regimes with occasional moderate energy input. Again, these are slack water deposits of pools and downstream bar locations; or perhaps near channel overbank deposits.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	% FRACTION
3/4"	0.00
3/8"	0.00
#4	6.47
#10	4.32
#20	4.76
#40	2.42
#60	2.21
#140	14.65
#200	4.01

TEXTUAL CLASSES & PERCENTAGES

Gravel Total ------------> 6.47
Coarse Sand ----> 4.32
Medium Sand ----> 7.18
Fine Sand ------> 20.87
Sand Total --------------> 32.37
Silt ------------> 40.85
Clay ------------> 20.31
Fines Total -------------> 61.16
Grand Total -------------> 100.00

ASTM CLASSIFICATION

Brown Sandy Clay
(CL)

USDA CLASSIFICATION
Loam

E
T
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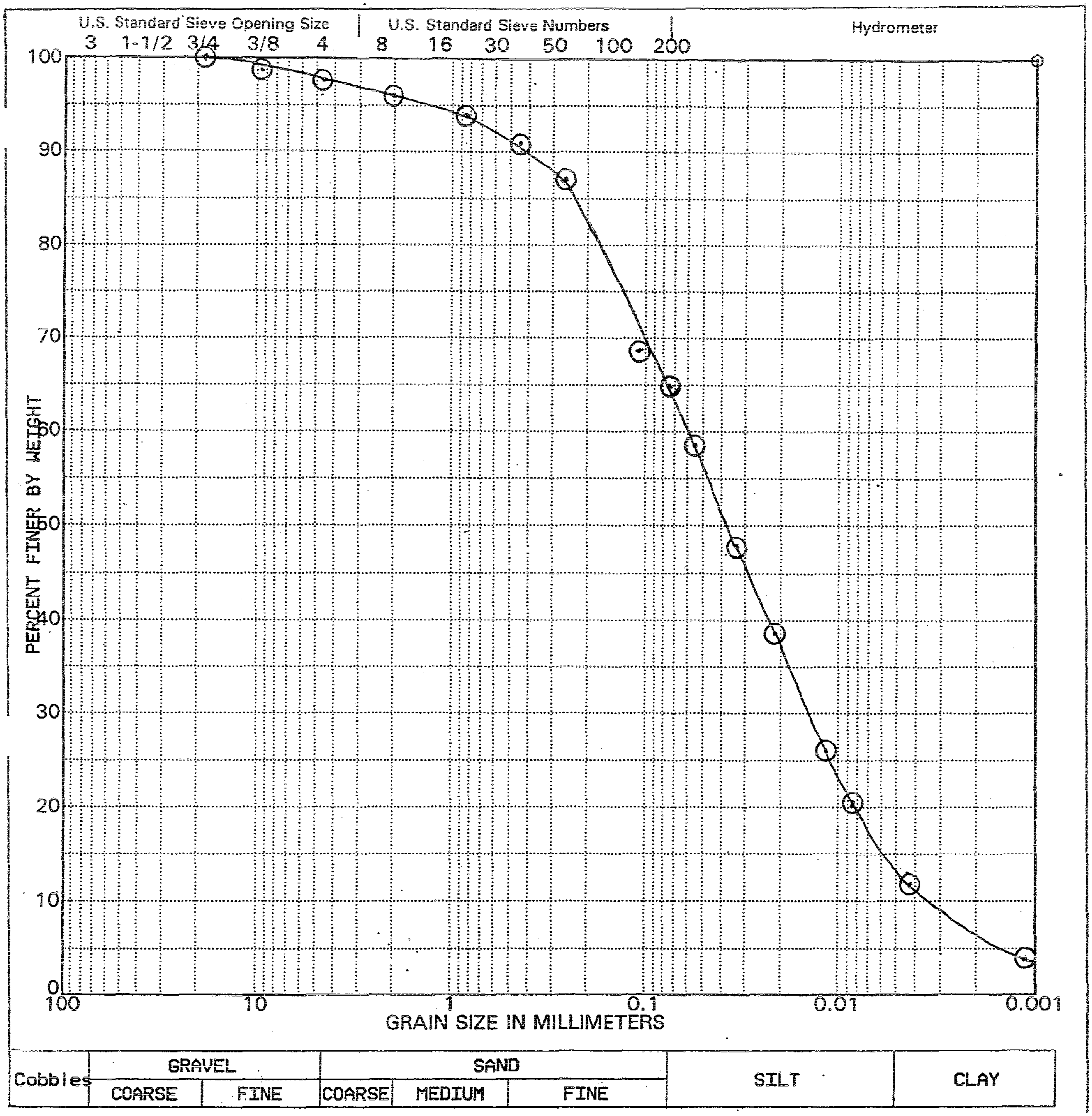
SAMPLE ID: MKF0274-03 CLIENT: Sequoia Analytical
01Guadalupe 03
PROJECT ID: MKF0274 - Guadalupe DATE: 7/06/01

PLATE 3

PARTICLE SIZE ANALYSIS



SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total ------------>	2.36
3/8"	1.10	Coarse Sand ---->	1.91
#4	1.26	Medium Sand ---->	4.80
#10	1.91	Fine Sand ------>	25.93
#20	1.62	Sand Total -------------->	32.64
#40	3.18	Silt ------------>	51.44
#60	3.74	Clay ------------>	13.56
#140	18.53	Fines Total ------------->	65.00
#200	3.66	Grand Total ------------->	100.00

ASTM CLASSIFICATION

Brown Sandy Silt
(MH)

USDA CLASSIFICATION
Silt Loam

SAMPLE ID: MKF0274-06 CLIENT: Sequoia Analytical

01Guadalupe CC03

PROJECT ID: MKF0274 - Guadalupe DATE: 7/06/01

PLATE 4

PARTICLE SIZE ANALYSIS

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SITE LOCATION: Los Coches; California

DATE COLLECTED	DATE RECEIVED	DATE of REPORT	ANALYST(S)	SUPERVISOR
6/701	6/13/01	7/6/01	M. Walker R. Conrad J. Nelson	D. Jacobson LAB DIRECTOR G.Conrad PhD

01LosCoches01

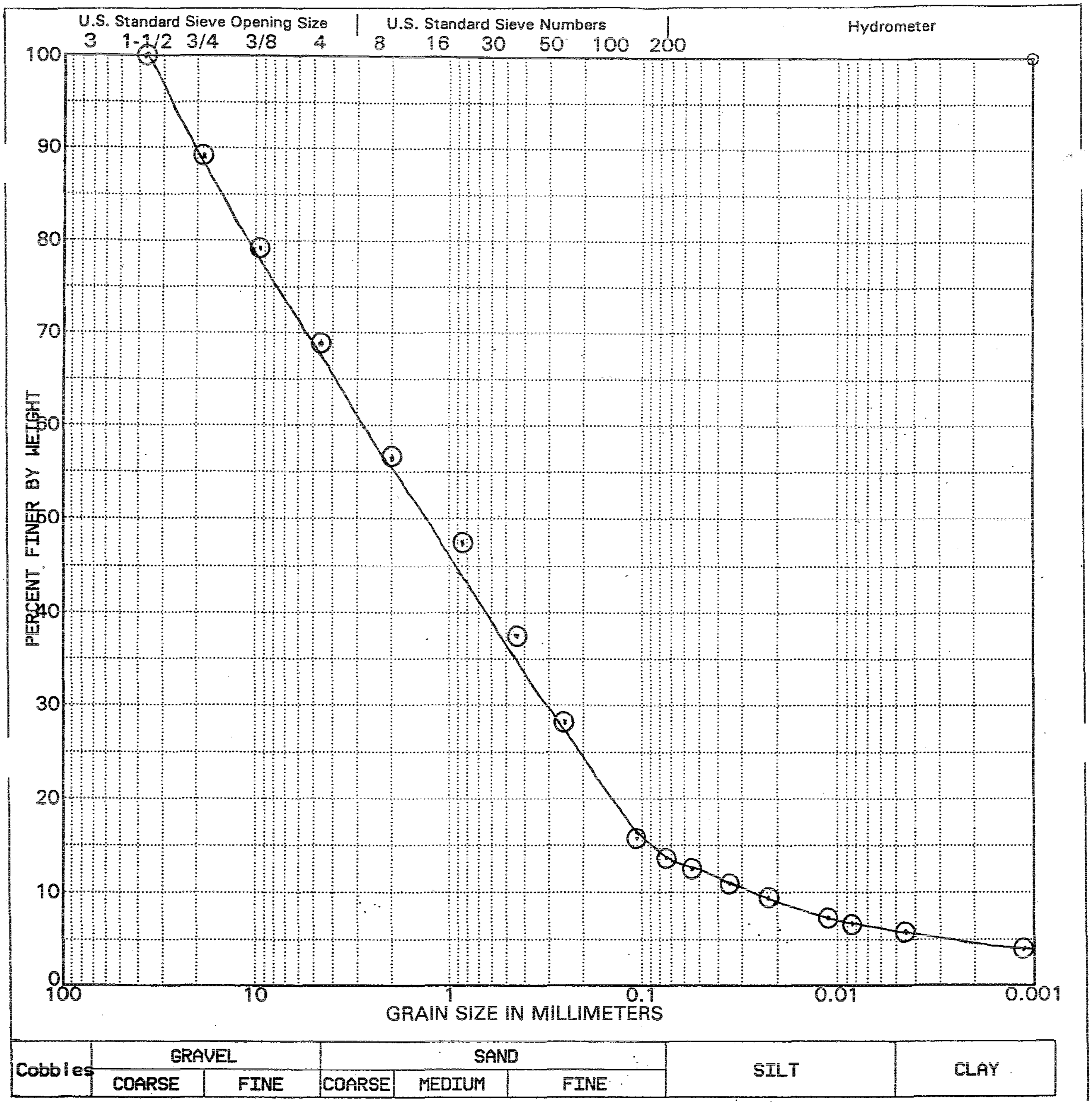
HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0151	SAMPLE ID:	MKF0257-01		LAB NUMBER:		SAMPLE ID:	
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		89.01	10.99	Coarse Gravel				Coarse Gravel
3/8" Sieve		79.03	9.98	Fine Gravel				Fine Gravel
Sieve #4		69.01	10.02					
Sieve #10		56.24	12.77	Coarse Sand				Coarse Sand
Sieve #20		47.60	8.64	Medium Sand				Medium Sand
eve #40		37.77	9.83					
Sieve #60		28.79	8.98	Fine Sand				Fine Sand
Sieve #140		15.54	13.25					
Sieve #200		14.08	1.46					
SILT (0.074)	√ 7.22			SILT (0.074)	√			Mud
		Grvl Total->	*30.99*			*Grvl Total->*	*0.00*	
CLAY (0.005)	6.87	*Sand Total->*	*54.93*	CLAY (0.005)		*Sand Total->*	*0.00*	(Silt & Clay)
		Fines Total->	*14.08*			*Fines Total->*	*0.00*	
		Sum Total->	*100.00*			*Sum Total->*	*0.00*	

********************************** COMMENTS ************************************

This sample classifies as silty clayey sand, but only barely so as there is minimal silt and clay present in the material. In fact, notice that gravel content is about double the mud content, thus gravel is an important modifier also. Therefore, this is mostly a moderate to high energy deposit fairly indicative of moderate to high flow mid- or near mid-channel (small) stream deposits.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet eved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	% FRACTION
3/4"	10.99
3/8"	9.98
#4	10.02
#10	12.77
#20	8.64
#40	9.83
#60	8.98
#140	13.25
#200	1.46

TEXTURAL CLASSES & PERCENTAGES

Gravel Total ------------> 30.99
Coarse Sand ----> 12.77
Medium Sand ----> 18.47
Fine Sand ------> 23.69
Sand Total -------------> 54.93
Silt -----------> 7.22
Clay -----------> 6.87
Fines Total -------------> 14.08
Grand Total -------------> 100.00

ASTM CLASSIFICATION

Brown Silty Clayey Sand w/gravel (SC-SM)

USDA CLASSIFICATION

Loamy Sand

SAMPLE ID: MKF0257-01 CLIENT: Sequoia Analytical
01 Los Coches 01
PROJECT ID: MKF0257 - Los Coches DATE: 7/06/01

PLATE 1

PARTICLE SIZE ANALYSIS

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ATTN: Jeff Smyly
SITE LOCATION: Los Coches; California

DATE COLLECTED	DATE RECEIVED	DATE of REPORT	ANALYST(S)	SUPERVISOR
6/14/01	6/20/01	7/13/01	S. Banwait R. Conrad J. Nelson	D. Jacobson LAB DIRECTOR G.Conrad PhD

01LosCoches CC02

HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0282	SAMPLE ID: MKF0352-01			LAB NUMBER:		SAMPLE ID:	
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM
3/4" Sieve		100.00	0.00	Coarse Gravel				Coarse Gravel
3/8" Sieve		98.63	1.37	Fine Gravel				Fine Gravel
Sieve #4		96.46	2.17					
Sieve #10		94.38	2.08	Coarse Sand				Coarse Sand
Sieve #20		92.89	1.49	Medium Sand				Medium Sand
eve #40		89.31	3.58					
Sieve #60		80.79	8.52	Fine Sand				Fine Sand
Sieve #140		73.81	36.98					
Sieve #200		32.73	11.08					
SILT (0.074)	√ 13.16			MUD (Silty + Clay)	√			Mud (Silt & Clay)
		Grvl Total->	3.54			*Grvl Total->*	0.00	
CLAY (0.005)	19.57	*Sand Total->*	63.73			*Sand Total->*	0.00	
		Fines Total->	32.73			*Fines Total->*	0.00	
		Sum Total->	100.00			*Sum Total->*	0.00	

********************************** COMMENTS **********************************

This sample classifies as clayey sand; it has minimal gravel. Notice the vast majority of the sand is fine sand. Thus, this sample seems to represent mostly a (low) moderate energy and flow regime deposit, but much of the time low to very low energy prevails as evidenced by the high mud, especially clay, content. It may represent downstream sand bar and (eddy) pool deposits; or possibly mid-distant overbank deposits.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet ved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.

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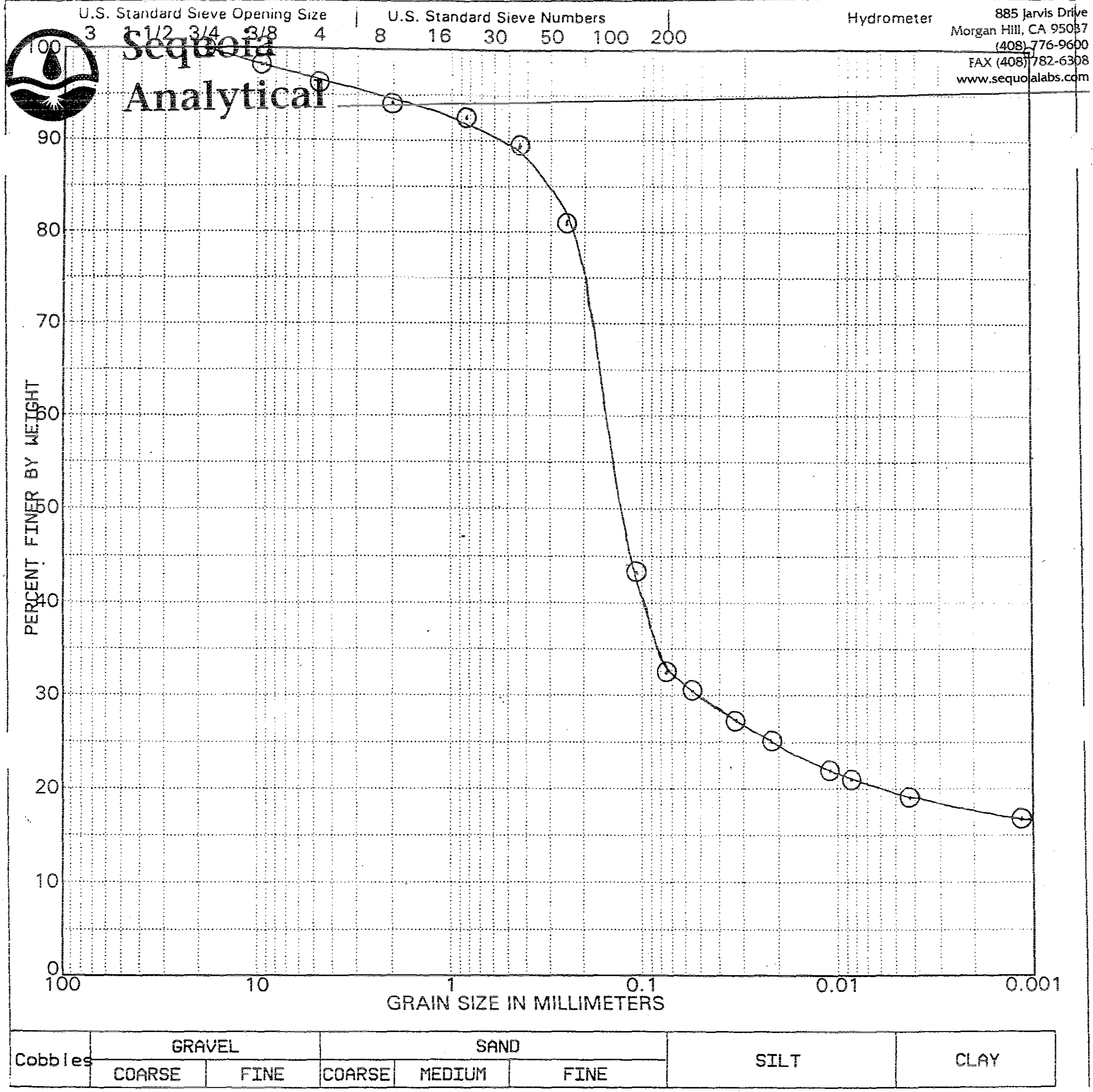

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total ------------>	3.54
3/8"	1.37	Coarse Sand ---->	2.08
#4	2.17	Medium Sand ---->	5.07
#10	2.08	Fine Sand ------>	56.58
#20	1.49	Sand Total -------------->	63.73
#40	3.58	Silt ------------>	13.16
#60	8.52	Clay ------------>	19.57
#140	36.98	Fines Total ------------->	32.73
#200	11.08	Grand Total ------------->	100.00

ASTM CLASSIFICATION

Brown Clayey Sand (SP)

USDA CLASSIFICATION

Sandy Clay Loam

SAMPLE ID: MKF0352-01 CLIENT: Sequoia Analytical

01 Los Coches CC02

PROJECT ID: MKF0352 - Los Coches DATE: 7/13/01

PLATE 1

PARTICLE SIZE ANALYSIS

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ATTN: Jeff Smyly
SITE LOCATION: Matadero; California

RECEIVED

JUL 1 0 2001

DATE COLLECTED	DATE RECEIVED	DATE of REPORT	ANALYST(S)	SUPERVISOR
6/5/01	6/13/01	7/3/01	M. Walker R. Conrad J. Nelson	D. Jacobson LAB DIRECTOR G.Conrad PhD

01matadero01

01MataderoCC01

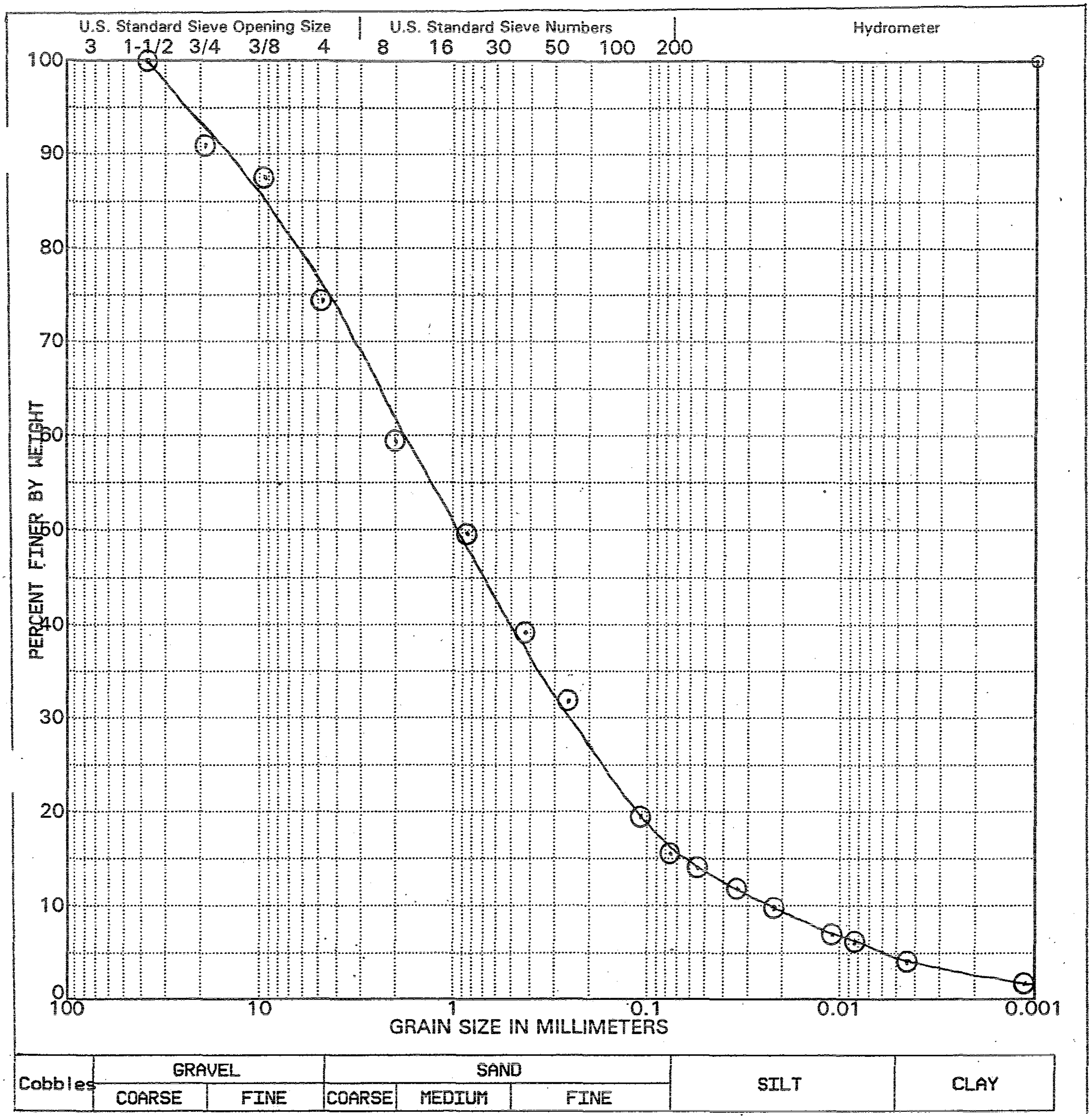
HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0141	SAMPLE ID: MKF0089-01			LAB NUMBER: 01-06-0142	SAMPLE ID: MKF0089-02		
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		91.27	8.73	Coarse Gravel		100.00	0.00	Coarse Gravel
3/8" Sieve		87.76	3.51	Fine Gravel		100.00	0.00	Fine Gravel
Sieve #4		74.55	13.21			99.79	0.21	
Sieve #10		59.67	14.88	Coarse Sand		99.36	0.43	Coarse Sand
Sieve #20		49.72	9.95	Medium Sand		98.60	0.76	Medium Sand
eve #40		38.18	11.54			96.96	1.64	
Sieve #60		31.95	6.23	Fine Sand		85.62	11.34	Fine Sand
Sieve #140		19.80	12.15			23.75	61.57	
Sieve #200		15.25	4.55			17.30	6.45	
SILT (0.074)	√ 10.75			SILT (0.074)	√ 12.93			Mud
CLAY (0.005)	4.50	*Grvl Total->*	*25.45*	CLAY (0.005)	4.37	*Grvl Total->*	*0.21*	(Silt & Clay)
		Sand Total->	*59.30*			*Sand Total->*	*82.49*	
		Fines Total->	*15.25*			*Fines Total->*	*17.30*	
		Sum Total->	*100.00*			*Sum Total->*	*100.00*	

********************************** COMMENTS **********************************

Although both of these samples classify as silty sand, there is a rather large difference in gravel content which primarily takes away from the sand classes; i.e., note that despite the great difference in gravel percentages, mud content is very similar. While both may be sand bar type deposits, they represent different lateral and/or vertical positions within the depositional sequence. Obviously, the more gravelly materials represent a high energy (and flow) regime punctuated by low flow part of the time, while the other mateirals represent a moderate flow regime also punctuated by low flow periods.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	% FRACTION
3/4"	8.73
3/8"	3.51
#4	13.21
#10	14.88
#20	9.95
#40	11.54
#60	6.23
#140	12.15
#200	4.55

TEXTURAL CLASSES & PERCENTAGES

Gravel Total ------------> 25.45
Coarse Sand ----> 14.88
Medium Sand ----> 21.49
Fine Sand ------> 22.93
Sand Total --------------> 59.30
Silt ------------> 10.75
Clay ------------> 4.50
Fines Total ------------> 15.25
Grand Total ------------> 100.00

ASTM CLASSIFICATION

Black Silty Sand w/ gravel (SM)

USDA CLASSIFICATION

Loamy Sand

SAMPLE ID: MKF0089-01 CLIENT: Sequoia Analytical

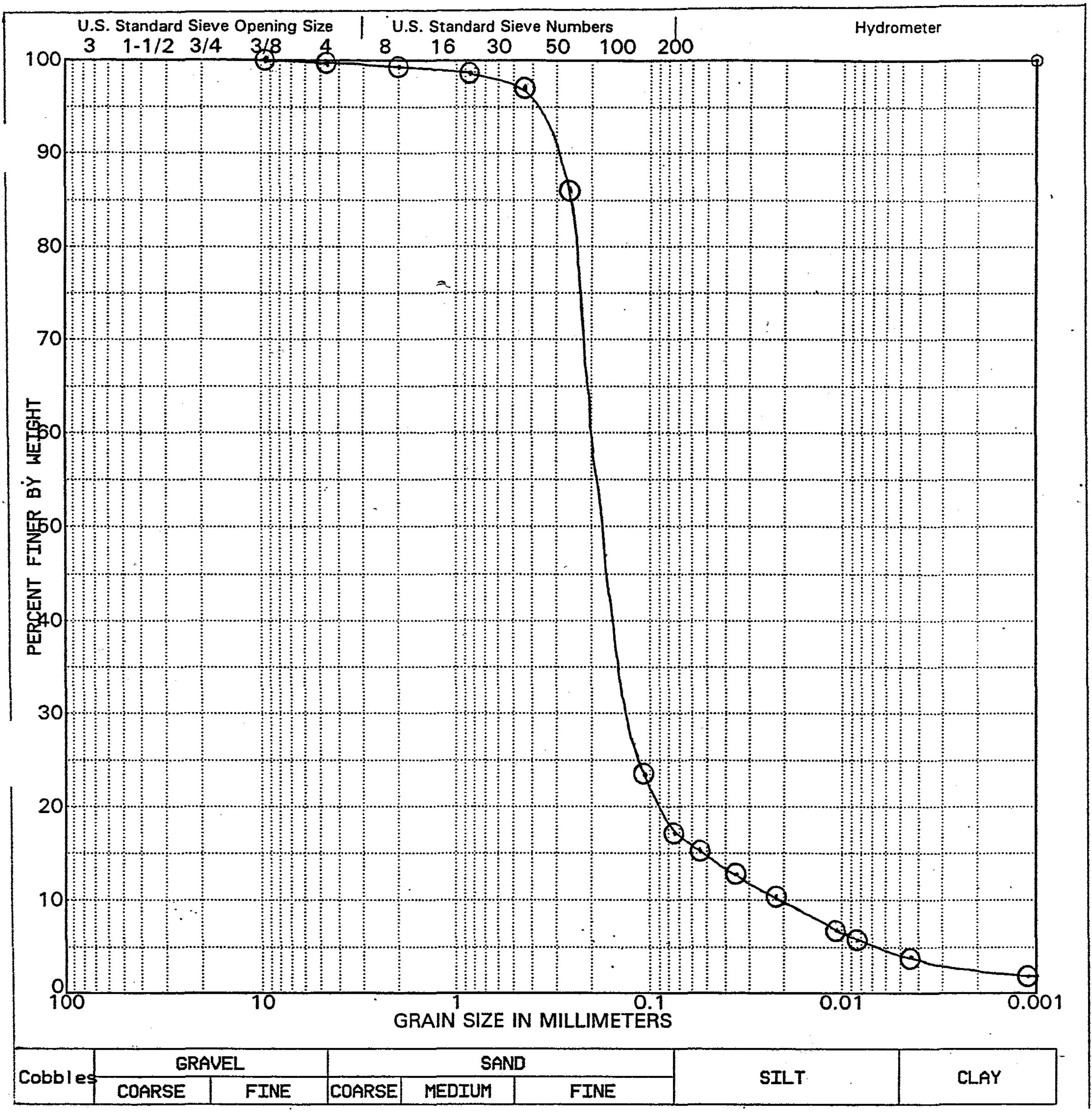
01 Matadero 01

PROJECT ID: MKF0089 - Matadero DATE: 7/03/01

PLATE 1

PARTICLE SIZE ANALYSIS

E T S



SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	0.00	Gravel Total ------------> 0.21
3/8"	0.00	Coarse Sand ----> 0.43
#4	0.21	Medium Sand ----> 2.40
#10	0.43	Fine Sand ------> 79.66
#20	0.76	Sand Total --------------> 82.49
#40	1.64	Silt ------------> 12.93
#60	11.34	Clay ------------> 4.37
#140	61.87	Fines Total -------------> 17.30
#200	6.45	Grand Total -------------> 100.00

ASTM CLASSIFICATION

Black & Brown Silty Sand (SM)

USDA CLASSIFICATION

Loamy Sand

SAMPLE ID: MKF0089-02 CLIENT: Sequoia Analytical

01 Matadero CC01

PROJECT ID: MKF0089 - Matadero DATE: 7/03/01

PLATE **2**

PARTICLE SIZE ANALYSIS

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ATTN: Jeff Smyly	DATE COLLECTED	DATE RECEIVED	DATE of REPORT	S. Banwait	D. Jacobson
SITE LOCATION: Randol; California				R. Conrad	LAB DIRECTOR
	6/8/01	6/13/01	7/6/01	J. Nelson	G.Conrad PhD

01 Randol 01 01 Randol CC01

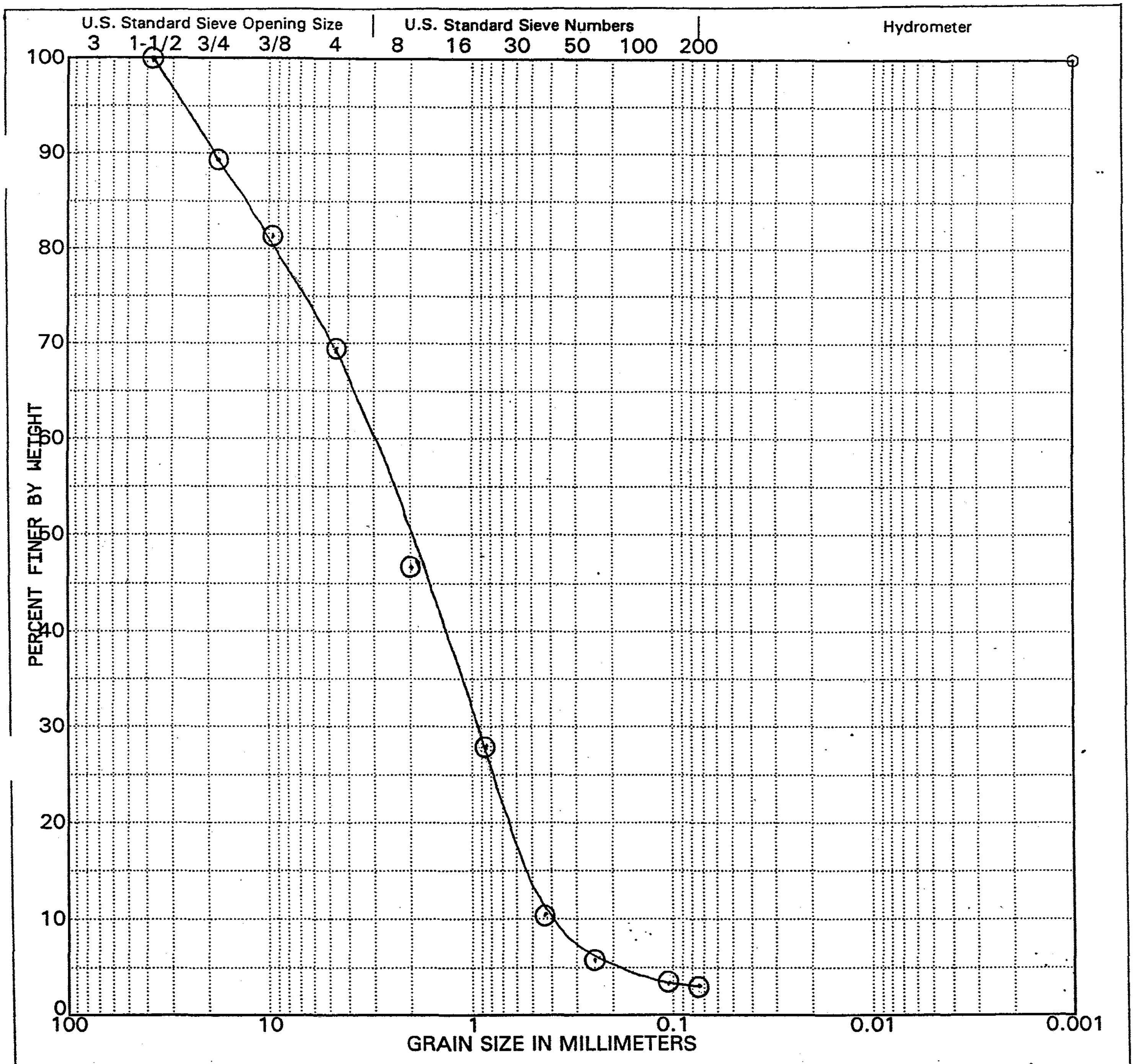
HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0152	SAMPLE ID:	MKF0273-01		LAB NUMBER: 01-06-0153	SAMPLE ID:	MKF0273-02	
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM
3/4" Sieve		89.51	10.49	Coarse Gravel		94.49	5.51	Coarse Gravel
3/8" Sieve		81.13	8.38	Fine Gravel		88.75	5.74	Fine Gravel
Sieve #4		69.58	11.55			79.94	8.81	
Sieve #10		46.85	22.73	Coarse Sand		62.23	17.71	Coarse Sand
Sieve #20		23.07	23.78	Medium Sand		28.10	34.13	Medium Sand
eve #40		10.19	12.88			12.68	15.42	
Sieve #60		5.60	4.59	Fine Sand		6.52	6.16	Fine Sand
Sieve #140		3.30	2.30			3.18	3.33	
Sieve #200		3.01	0.29			2.86	0.33	
MUD (Silty + Clay)	√ 3.01	*Grvl Total->* *Sand Total->* *Fines Total->* *Sum Total->*	*30.42* *66.57* *3.01* *100.00*	MUD (Silty + Clay)	√ 2.86	*Grvl Total->* *Sand Total->* *Fines Total->* *Sum Total->*	*20.06* *77.08* *2.86* *100.00*	Mud (Silt & Clay)

********************************** COMMENTS **********************************

Both of these samples not only classify as sand with gravel, but are very similar overall with only relatively small differences in totals for the various textural classes. The differences are in gravel and sand classes with the two flip-flopping these percentages. Even so, it appears both samples represent either sand bar or channel lag deposits with little difference in location. Thus, it seems flow regime is very similar for the two probably representing something in the moderate to high energy range for the stream.

\ NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet sieved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISS ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



Cobbles	GRAVEL		SAND			SILT	CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	10.49	Gravel Total ------------> 30.42
3/8"	8.38	Coarse Sand ----> 22.73
#4	11.55	Medium Sand ----> 36.66
#10	22.73	Fine Sand ------> 7.18
#20	23.78	Sand Total -------------> 66.57
#40	12.88	Silt -----------> -.--
#60	4.59	Clay -----------> -.--
#140	2.30	Fines Total ------------> 3.01
#200	0.29	Grand Total ------------> 100.00

ASTM CLASSIFICATION

Brown Sand
w/ gravel (SP)

USDA CLASSIFICATION

Sand

SAMPLE ID: MKF0273-01 CLIENT: Sequoia Analytical

01 Randol 01

PROJECT ID: MKF0273 - Randol DATE: 7/06/01

PLATE **1**

PARTICLE SIZE ANALYSIS

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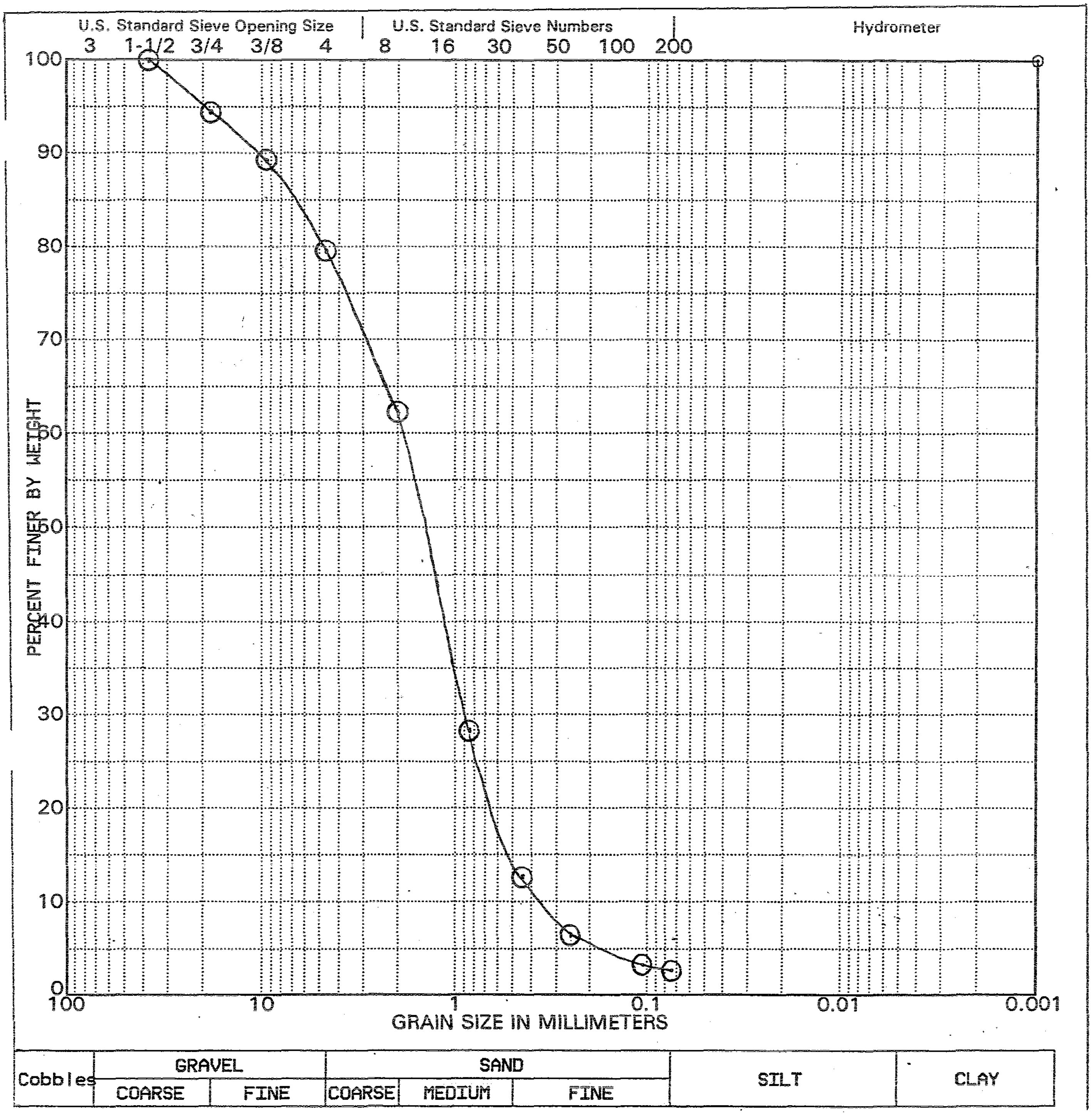

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	5.51	Gravel Total ----------->	20.06
3/8"	5.74	Coarse Sand ---->	17.71
#4	8.81	Medium Sand ---->	49.55
#10	17.71	Fine Sand ------>	9.82
#20	34.13	Sand Total ------------->	77.08
#40	15.42	Silt ----------->	-.--
#60	6.16	Clay ----------->	-.--
#140	3.33	Fines Total ------------>	2.86
#200	0.33	Grand Total ------------>	100.00

ASTM CLASSIFICATION

Brown Sand w/ gravel (SP)

USDA CLASSIFICATION

Sand

SAMPLE ID: MKF0273-02 CLIENT: Sequoia Analytical

01RandolCCO1

PROJECT ID: MKF0273 - Randol DATE: 7/06/01

PLATE 2

PARTICLE SIZE ANALYSIS

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ATTN: Jeff Smyly
SITE LOCATION: Ross; California

DATE COLLECTED	DATE RECEIVED	DATE of REPORT	ANALYST(S)	SUPERVISOR
6/13/01	6/15/01	7/11/01	S. Banwait R. Conrad J. Nelson	D. Jacobson LAB DIRECTOR G.Conrad PhD

01ROSS01

01 RossCC

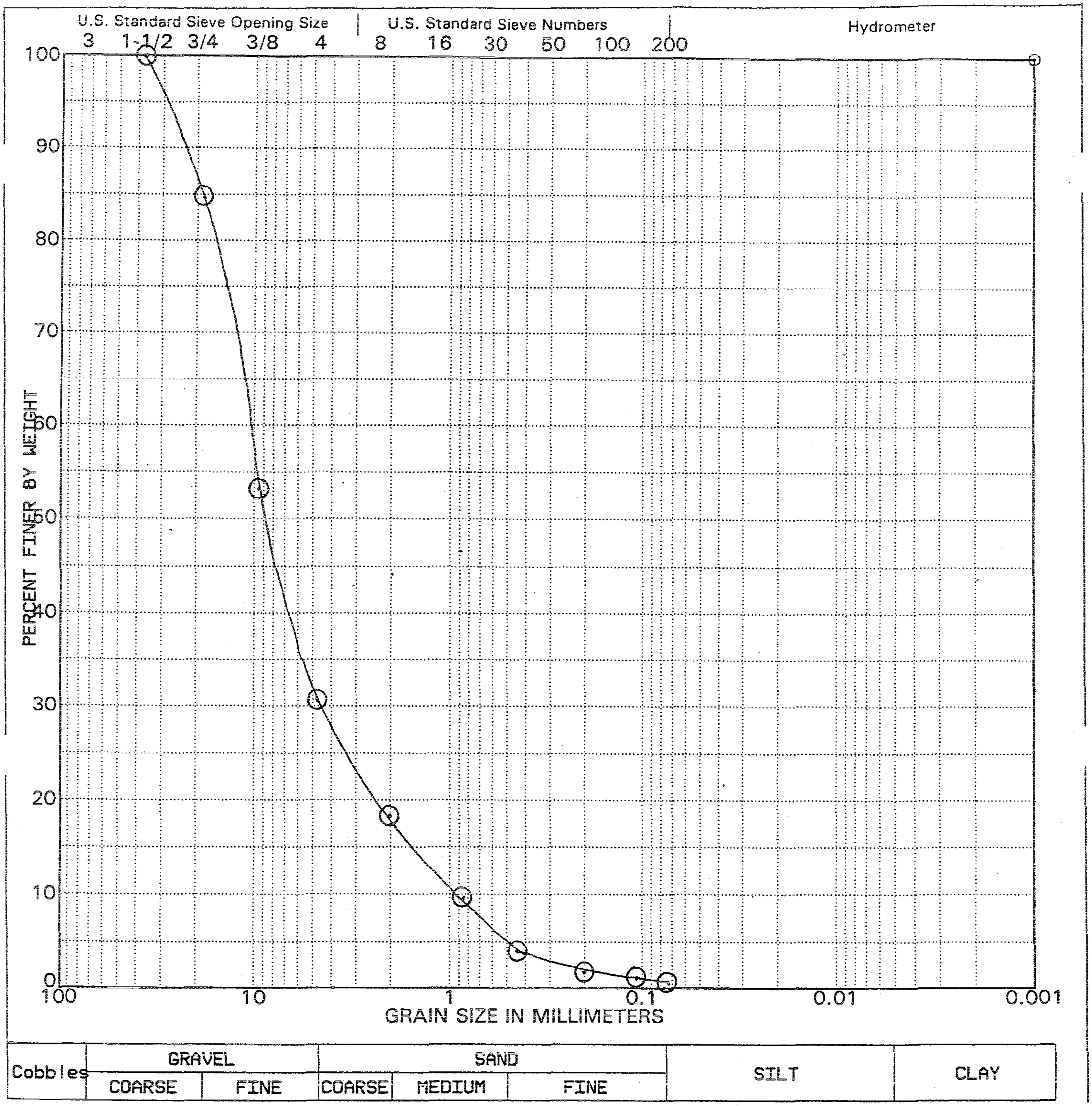
HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0246	SAMPLE ID: MKF0297-01			LAB NUMBER: 01-06-0247	SAMPLE ID: MKF0297-02		
SIEVE SIZE (SCREEN #)	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	FINES PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		84.95	15.05	Coarse Gravel		94.51	5.49	Coarse Gravel
3/8" Sieve		53.21	31.74	Fine Gravel		70.39	24.12	Fine Gravel
Sieve #4		30.33	22.88			45.57	24.82	
Sieve #10		18.09	12.24	Coarse Sand		21.56	24.01	Coarse Sand
Sieve #20		9.94	8.15	Medium Sand		8.56	13.00	Medium Sand
eve #40		4.32	5.62			2.85	5.71	
Sieve #60		1.98	2.34	Fine Sand		0.92	1.93	Fine Sand
Sieve #140		1.06	0.92			0.21	0.71	
Sieve #200		0.62	0.44			0.13	0.08	
MUD (Silt + Clay)	√ 0.62	*Grvl Total->* *Sand Total->* *Fines Total->* *Sum Total->*	*69.67* *29.71* *0.62* *100.00*	MUD (Silt + Clay)	√ 0.13	*Grvl Total->* *Sand Total->* *Fines Total->* *Sum Total->*	*54.43* *45.44* *0.13* *100.00*	Mud (Silt & Clay)

********************************** COMMENTS **********************************

Both samples classifiy as gravel with sand; note that the mud content is nil. These materials may represent channel lag deposits of similar high flow regime and energy level (i.e., at the low end of the high range). The nil content of mud indicates low energy levels don't occur, but the sand content indicates moderate enegy levels part of the time. Indeed, the sand acts as a scouring agent much of the time to remove fines. Energy levels change quickly as evidence by the lack of fines.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet eved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	15.05	Gravel Total ------------> 69.67
3/8"	31.74	Coarse Sand ----> 12.24
#4	22.88	Medium Sand ----> 13.77
#10	12.24	Fine Sand ------> 3.70
#20	8.15	Sand Total -------------> 29.71
#40	5.62	Silt ------------> -.--
#60	2.34	Clay ------------> -.--
#140	0.92	Fines Total -------------> 0.62
#200	0.44	Grand Total -------------> 100.00

ASTM CLASSIFICATION

Gray Brown Gravel w/ sand (GP)

USDA CLASSIFICATION

Sand

SAMPLE ID: MKF0297-01 CLIENT: Sequoia Analytical

01ROSS01

PROJECT ID: MKF0297 - Ross DATE: 7/11/01

PLATE 1

PARTICLE SIZE ANALYSIS

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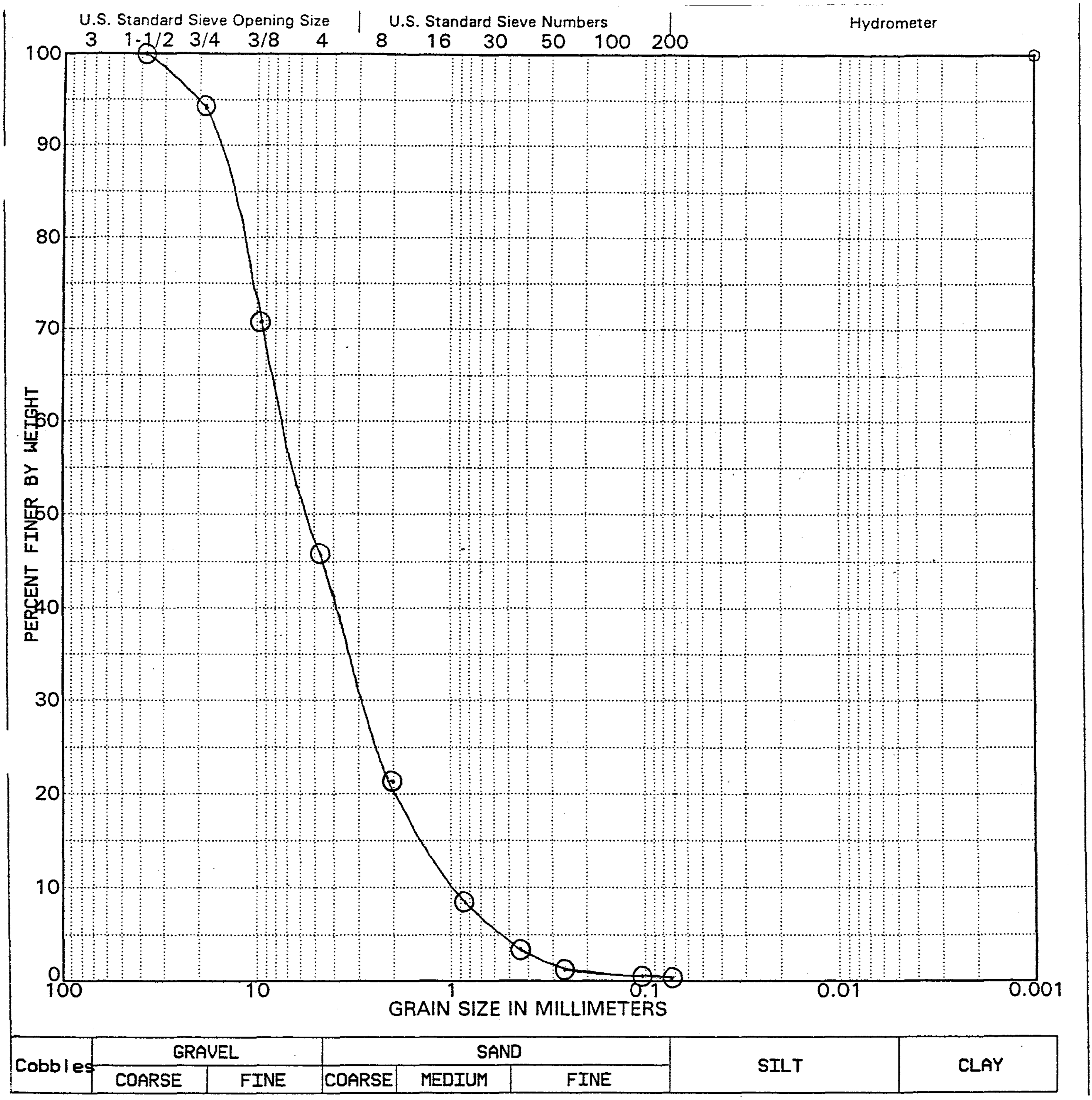

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	5.49	Gravel Total ------------> 54.43
3/8"	24.12	Coarse Sand ----> 24.01
#4	24.82	Medium Sand ----> 18.71
#10	24.01	Fine Sand ------> 2.72
#20	13.00	Sand Total --------------> 45.44
#40	5.71	Silt ------------> -.--
#60	1.93	Clay ------------> -.--
#140	0.71	Fines Total -------------> 0.13
#200	0.08	Grand Total -------------> 100.00

ASTM CLASSIFICATION

Brown Gravel w/ sand (GP)

USDA CLASSIFICATION

Sand

SAMPLE ID: MKF0297-02 CLIENT: Sequoia Analytical

01ROSSCC01

PROJECT ID: MKF0297 - Ross DATE: 7/11/01

PLATE 2

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ATTN: Jeff Smyly	DATE	DATE	DATE of	M. Walker	D. Jacobson
SITE LOCATION: Rucker; California	COLLECTED	RECEIVED	REPORT	R. Conrad	LAB DIRECTOR
	6/8/01	6/15/01	7/11/01	J. Nelson	G.Conrad PhD

01 Rucker01 01RuckerCC01

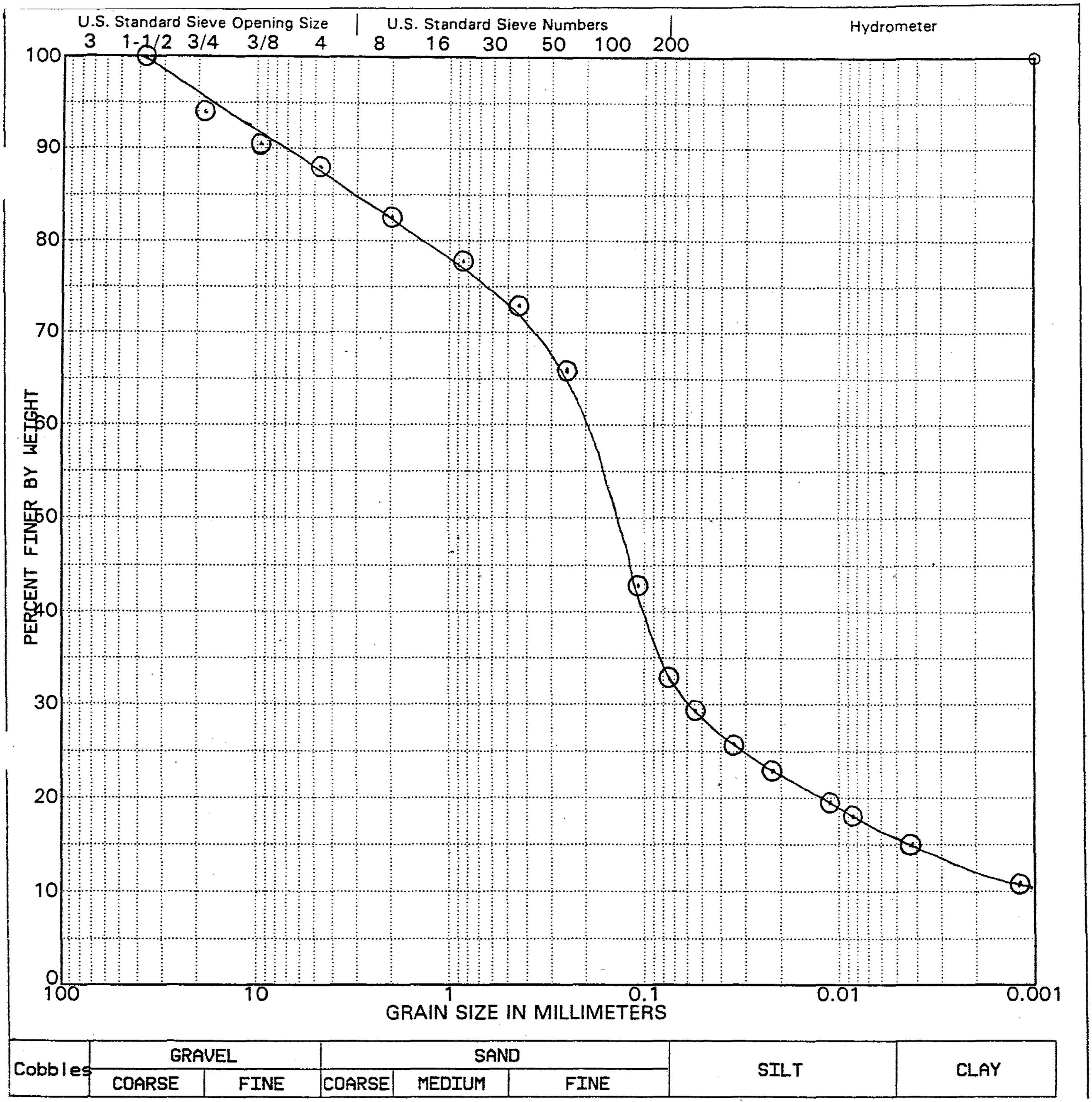
HYDROMETER & SIEVE ANALYSIS REPORT

SIEVE SIZE (SCREEN #)	LAB NUMBER: 01-06-0240 SAMPLE ID: MKF0271-01				LAB NUMBER: 01-06-0241 SAMPLE ID: MKF0271-02			
	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	(UNIFIED) SYSTEM
3/4" Sieve		94.41	5.59	Coarse Gravel		100.00	0.00	Coarse Gravel
3/8" Sieve		90.49	3.92	Fine Gravel		98.81	1.19	Fine Gravel
Sieve #4		57.91	2.58			94.28	4.53	
Sieve #10		82.64	5.27	Coarse Sand		88.26	6.02	Coarse Sand
Sieve #20		77.84	4.80	Medium Sand		51.51	6.75	Medium Sand
eve #40		73.01	4.83			76.86	4.65	
Sieve #60		65.58	7.43	Fine Sand		67.30	9.56	Fine Sand
Sieve #140		42.90	22.68			50.03	17.27	
Sieve #200		33.20	9.70			43.13	6.90	
SILT (0.074)	√ 17.66			SILT (0.074)	√ 21.96			Mud
		Grvl Total->	*12.09*			*Grvl Total->*	*5.72*	
CLAY (0.005)	15.54	*Sand Total->*	*54.71*	CLAY (0.005)	21.17	*Sand Total->*	*51.15*	(Silt & Clay)
		Fines Total->	*33.20*			*Fines Total->*	*43.13*	
		Sum Total->	*100.00*			*Sum Total->*	*100.00*	

************************************ COMMENTS ************************************

Both of these samples classify as clayey sand; both have some fine gravel but total is <15%. Both samples have very similar overall distributions. As a result, its seems they are similar enough that they probably represent very similar deposits. One sample does have slightly heavier (larger) gravel and thus may represent a slightly higher energy of deposition. But both should represent similar positions within a stream course, perhaps at the downstream part of a sand bar, or near overbank where energy levels run from nil to moderate.

NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet ved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	5.59	Gravel Total ----------->	12.09
3/8"	3.92	Coarse Sand ---->	5.27
#4	2.58	Medium Sand ---->	9.63
#10	5.27	Fine Sand ------->	39.81
#20	4.80	Sand Total ------------->	54.71
#40	4.83	Silt ----------->	17.66
#60	7.43	Clay ----------->	15.54
#140	22.68	Fines Total ------------>	33.20
#200	9.70	Grand Total ------------>	100.00

ASTM CLASSIFICATION

Orange Brown Clayey Sand (SC)

USDA CLASSIFICATION

Sand Loam

SAMPLE ID: MKF0271-01 CLIENT: Sequoia Analytical

01 Rucker01

PROJECT ID: MKF0271 - RUCKER DATE: 7/11/01

PLATE 1

PARTICLE SIZE ANALYSIS

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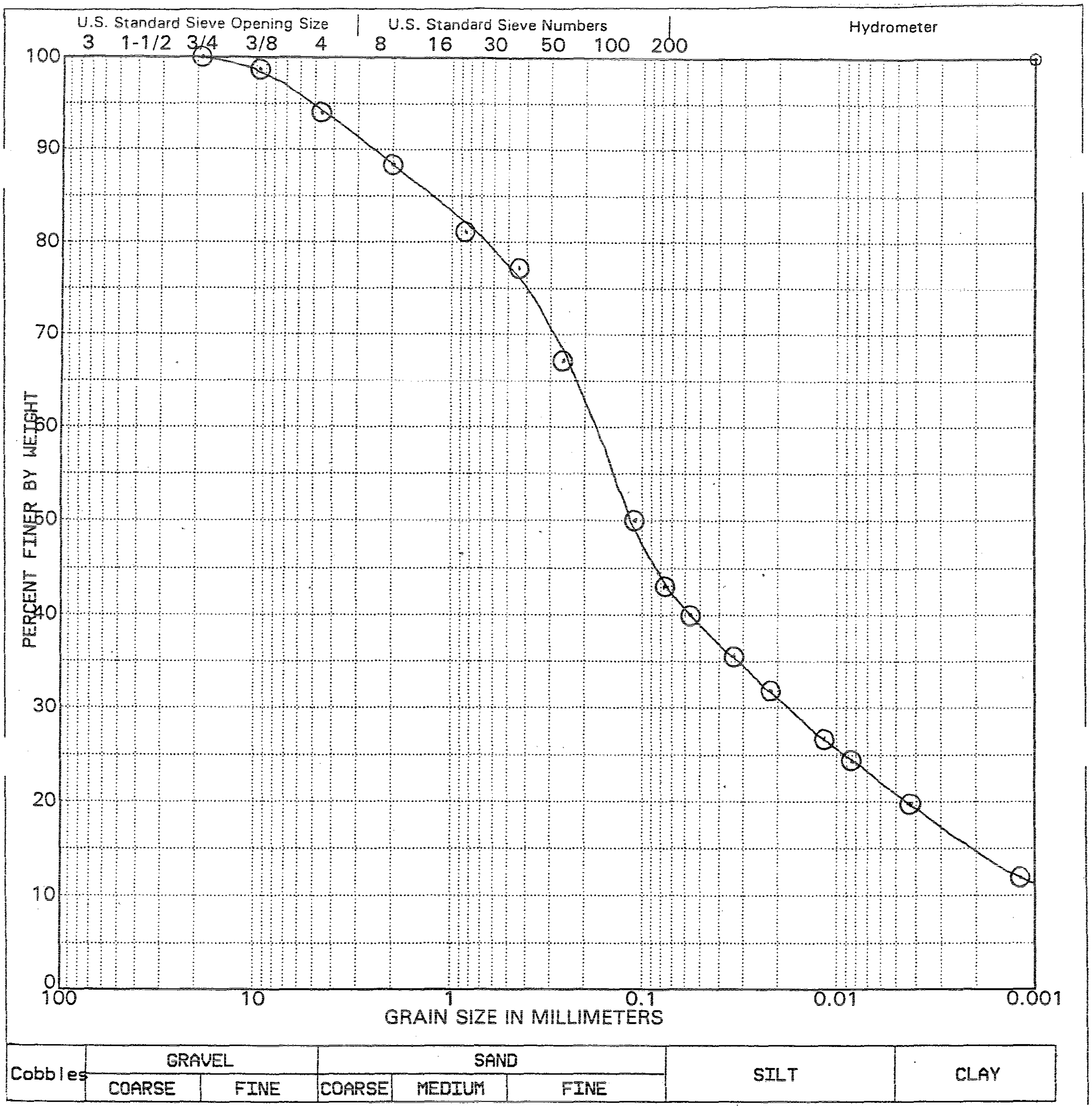

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES	
3/4"	0.00	Gravel Total ------------>	5.72
3/8"	1.19	Coarse Sand ---->	6.02
#4	4.53	Medium Sand ---->	11.40
#10	6.02	Fine Sand ------>	33.73
#20	6.75	Sand Total -------------->	51.15
#40	4.65	Silt ------------>	21.96
#60	9.56	Clay ------------>	21.17
#140	17.27	Fines Total ------------->	43.13
#200	6.90	Grand Total ------------->	100.00

ASTM CLASSIFICATION

Orange Brown Clayey Sand (SC)

USDA CLASSIFICATION

Sandy Clay Loam

SAMPLE ID: MKF0271-02 CLIENT: Sequoia Analytical

01 Rucker CC01

PROJECT ID: MKF0271 - RUCKER DATE: 7/11/01

PLATE 2

PARTICLE SIZE ANALYSIS

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ATTN: Jeff Smyly	DATE COLLECTED	DATE RECEIVED	DATE of REPORT	S. Banwait	D. Jacobson
SITE LOCATION: Sierra; California				R. Conrad	LAB DIRECTOR
	6/13/01	6/16/01	7/11/01	J. Nelson	G.Conrad PhD

01Sierra01 01Sierra CC01

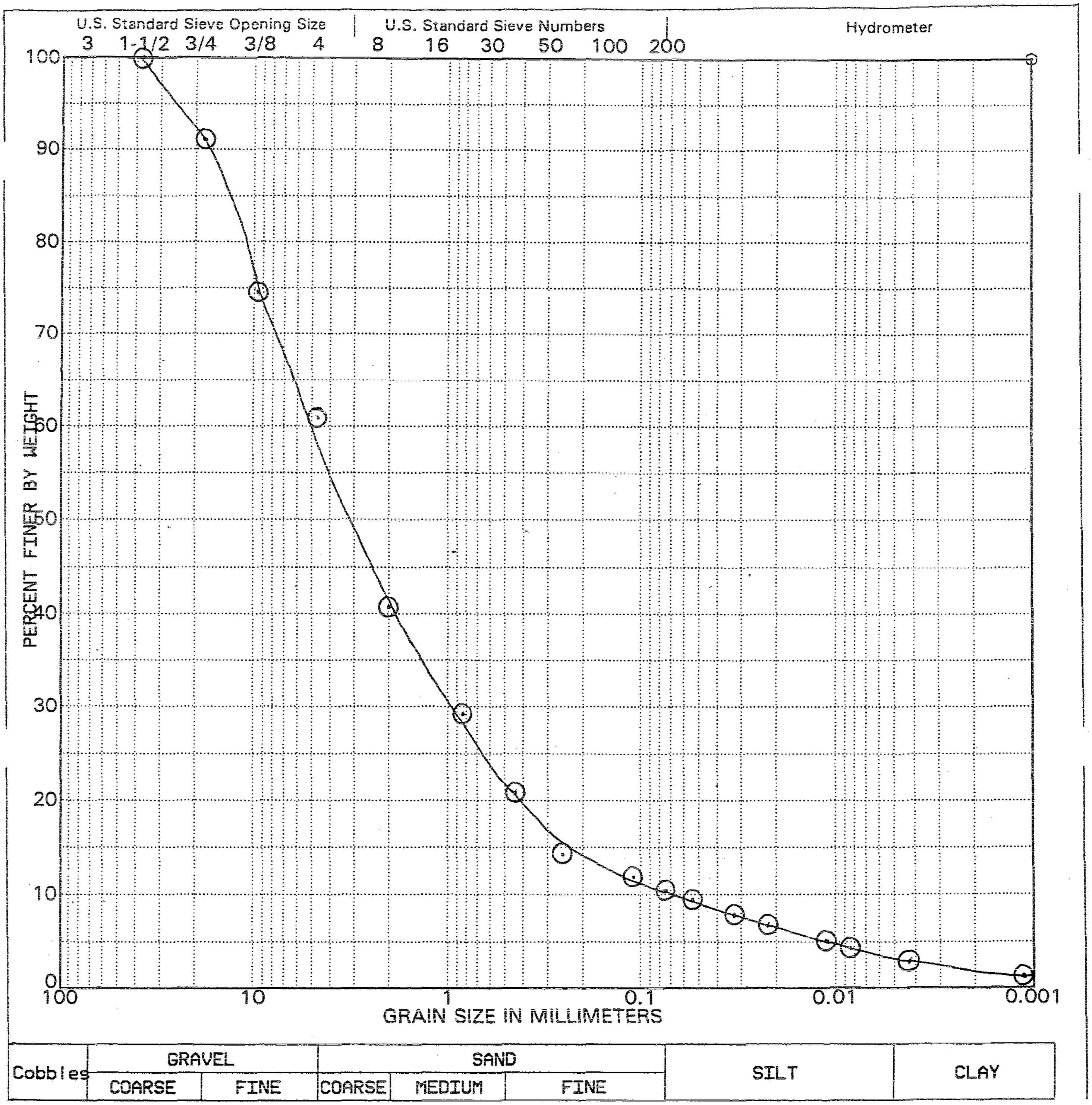
HYDROMETER & SIEVE ANALYSIS REPORT

	LAB NUMBER: 01-06-0248		SAMPLE ID: MKF0298-01		LAB NUMBER: 01-06-0249		SAMPLE ID: MKF0298-02	
SIEVE SIZE (SCREEN #)	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM	HYDROMETER PERCENTAGE	PERCENT PASSING	PERCENT RETAINED	ASTM SYSTEM
3/4" Sieve		90.83	9.17	Coarse Gravel		67.32	32.68	Coarse Gravel
3/8" Sieve		74.91	15.92	Fine Gravel		54.35	12.97	Fine Gravel
Sieve #4		61.17	13.74			41.27	13.08	
Sieve #10		40.52	20.65	Coarse Sand		31.44	9.83	Coarse Sand
Sieve #20		29.30	11.22	Medium Sand		27.27	4.17	Medium Sand
.eve #40		20.64	8.66			23.78	3.49	
Sieve #60		14.61	6.03	Fine Sand		20.05	3.73	Fine Sand
Sieve #140		11.81	2.80			16.60	3.45	
Sieve #200		10.47	1.34			15.58	1.02	
SILT (0.074)	√ 7.22			SILT (0.074)	√ 9.96			Mud
		Grvl Total->	*38.83*			*Grvl Total->*	*58.73*	
CLAY (0.005)	3.25	*Sand Total->*	*50.70*	CLAY (0.005)	5.62	*Sand Total->*	*25.69*	(Silt & Clay)
		Fines Total->	*10.47*			*Fines Total->*	*15.58*	
		Sum Total->	*100.00*			*Sum Total->*	*100.00*	

************************************ COMMENTS ************************************

These two samples differ in their major textural class percentages, thus they differ in their classification: one is a sand (with silt and gravel), while the other is a (silty) gravel (with sand). Thus, one represents a mostly moderate energy of deposition (sand), while high energy dominates in the other case (gravel). Both could be found in relatively close proximity to one another, but the sand is more indicative of sand bar while the gravel is more like a channel lag deposit. However, as an example upstream bar and proximal channel could be represented by these two samples.

``\ NOTES: Samples are dried, disaggregated, and screened through a nested set of sieves. Consolidated samples are wet .eved (e.g., beach sand), while unconsolidated samples are dry sieved. Different organizations, eg. USGS, USDA, CSSC, ISSS, ISSS, ASTM, AASHTO, etc., have different divisions for the various fractions. The divisions listed above reflect ASTM and/or client specifications as a rule Depending on specs, anywhere from 2-12 hydrometer points are taken over a 2 to 24 hour period. Settling tubes are 17" x 2.375" polycarbonate cylinders; dispersion device is stainless steel.



SIEVE #	% FRACTION	TEXTUAL CLASSES & PERCENTAGES
3/4"	9.17	Gravel Total -----------> 38.83
3/8"	15.92	Coarse Sand ----> 20.65
#4	13.74	Medium Sand ----> 19.88
#10	20.65	Fine Sand ------> 10.17
#20	11.22	Sand Total -------------> 50.70
#40	8.66	Silt -----------> 7.22
#60	6.03	Clay -----------> 3.25
#140	2.80	Fines Total ------------> 10.47
#200	1.34	Grand Total ------------> 100.00

ASTM CLASSIFICATION

Brown Sand w/ silt & gravel (SP-SM)

USDA CLASSIFICATION

Loamy Sand

SAMPLE ID: MKF0298-01 CLIENT: Sequoia Analytical

01Sierra01

PROJECT ID: MKF0298 - Sierra DATE: 7/11/01

PLATE 1

PARTICLE SIZE ANALYSIS

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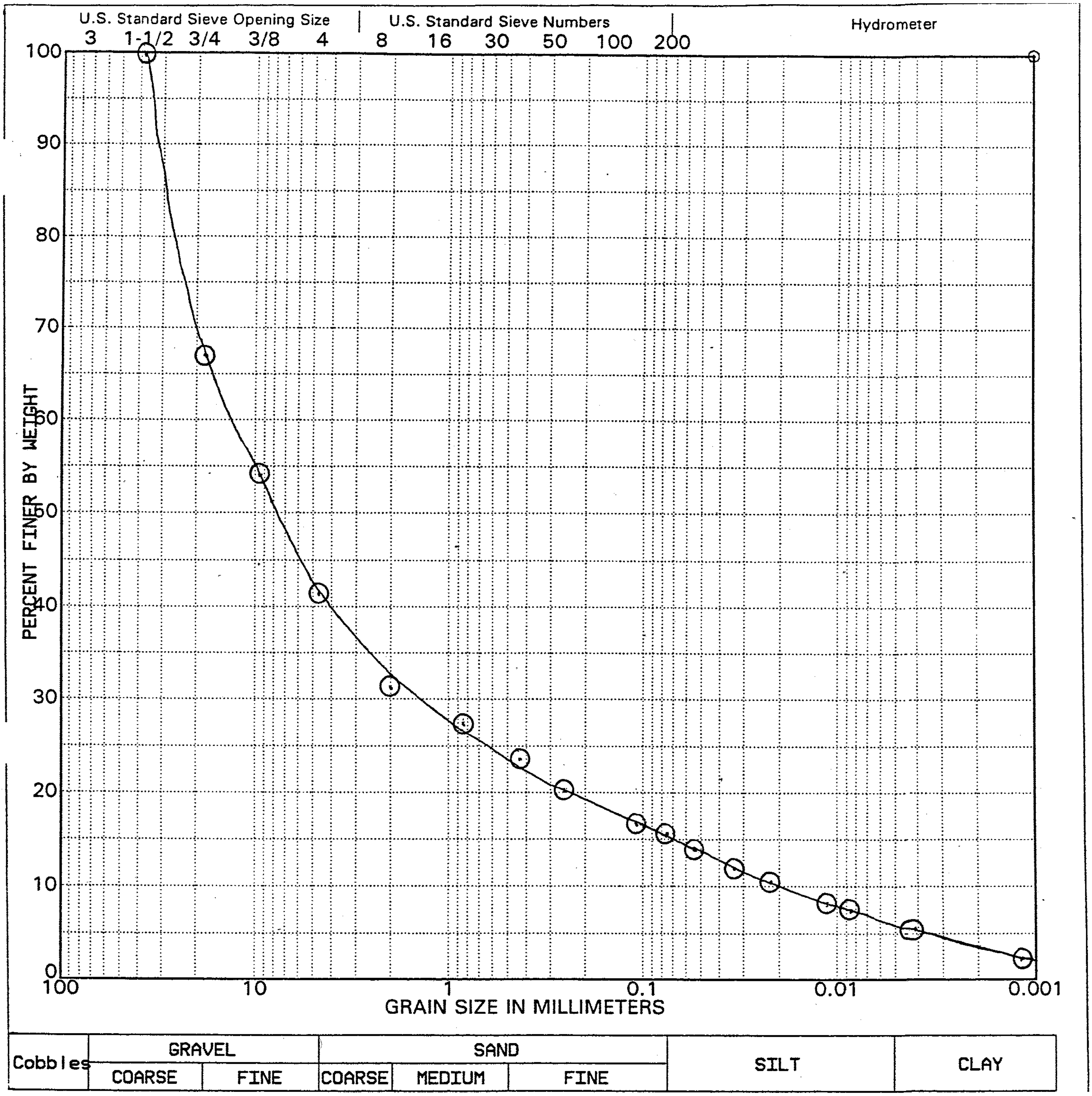

SIEVE #	% FRACTION	TEXTURAL CLASSES & PERCENTAGES
3/4"	32.68	Gravel Total ------------> 58.73
3/8"	12.97	Coarse Sand ----> 9.83
#4	13.08	Medium Sand ----> 7.66
#10	9.83	Fine Sand ------> 8.20
#20	4.17	Sand Total --------------> 25.69
#40	3.49	Silt ------------> 9.96
#60	3.73	Clay ------------> 5.62
#140	3.45	Fines Total ------------> 15.58
#200	1.02	Grand Total ------------> 100.00

ASTM CLASSIFICATION

Brown Silty Gravel w/ sand (GM)

USDA CLASSIFICATION

San dy Loam

SAMPLE ID: MKF0298-02 CLIENT: Sequoia Analytical
01SierraCC01
PROJECT ID: MKF0298 - Sierra DATE: 7/11/01

PLATE **2**

PARTICLE SIZE ANALYSIS

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APPENDIX C

2001 Sediment moval Project -
Analytical Data fo diment Samples
Continuous Core Samples

		AdobeCC01 (continuous)		BerryMilCC01 (continuous)		BerryMilCC02 (continuous)		BerryCropCC01 (continuous)		BerryPiedCC01 (continuous)		CalabazasCC01 (continuous)		CalabazasCC02 (continuous)		CalabazasCC03 (continuous)		CalabazasCC04 (continuous)		CalabazasCC05 (continuous)	
Analyte	units	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.0370	0.0035	0.0550	0.0038	0.0270	0.0036	0.0940	0.0037	0.0720	0.0034	0.0280	0.0043	0.1700	0.0034	0.073	0.0037	0.0230	0.0047	0.0640	0.0034
Antimony	mg/Kg	ND	1.800	ND	1.800	ND	1.800	ND	1.800	ND	1.700	ND	1.800	ND	1.900	2.3	1.800	ND	2.100	ND	1.800
Arsenic	mg/Kg	3.800	3.600	7.000	3.600	5.900	3.600	13.000	3.600	7.100	3.400	ND	3.600	5.000	3.700	8.600	3.600	ND	4.200	4.100	3.700
Barium	mg/Kg	88.000	4.500	56.000	4.500	130.000	4.500	110.000	4.500	79.000	4.200	52.000	4.500	110.000	4.600	170.000	4.500	60.000	5.300	68.000	4.600
Beryllium	mg/Kg	ND	0.450	ND	0.450	ND	0.450	ND	0.450	ND	0.420	ND	0.450	ND	0.460	ND	0.450	ND	0.530	ND	0.460
Cadmium	mg/Kg	ND	0.550	ND	0.550	ND	0.550	ND	0.550	ND	0.510	ND	0.550	ND	0.560	ND	0.550	ND	0.630	ND	0.550
Chromium	mg/Kg	79.000	5.500	25.000	5.500	31.000	5.500	32.000	5.500	30.000	5.100	37.000	5.500	85.000	5.600	57.000	5.500	39.000	6.300	35.000	5.500
Cobalt	mg/Kg	15.000	0.910	7.500	0.910	7.800	0.910	8.500	0.910	7.800	0.850	11.000	0.910	16.000	0.930	16.000	0.910	9.900	1.100	9.600	0.920
Copper	mg/Kg	32.000	1.800	14.000	1.800	16.000	1.800	24.000	1.800	61.000	1.700	13.000	1.800	25.000	1.900	33.000	1.800	14.000	2.100	14.000	1.800
Lead	mg/Kg	17.000	4.500	5.300	4.500	4.900	4.500	11.000	4.500	4.400	4.200	ND	4.500	17.000	4.600	10.000	4.500	7.500	5.300	12.000	4.600
Molybdenum	mg/Kg	ND	0.910	ND	0.910	ND	0.910	ND	0.910	ND	0.850	ND	0.910	ND	0.930	ND	0.910	ND	1.100	ND	0.920
Nickel	mg/Kg	57.000	0.910	44.000	0.910	44.000	0.910	51.000	0.910	38.000	0.850	37.000	0.910	100.000	0.930	67.000	0.910	42.000	1.100	37.000	0.920
Selenium	mg/Kg	ND	4.500	ND	4.500	ND	4.500	ND	4.500	ND	4.200	ND	4.500	ND	4.600	ND	4.500	ND	5.300	ND	4.600
Silver	mg/Kg	ND	1.400	ND	1.400	ND	1.400	ND	1.400	ND	1.300	ND	1.400	ND	1.400	ND	1.400	ND	1.600	ND	1.400
Thallium	mg/Kg	ND	1.600	ND	1.600	2.600	1.600	ND	1.600	5.400	1.500	ND	1.600	ND	1.700	ND	1.600	ND	1.900	ND	1.700
Vanadium	mg/Kg	65.000	1.400	29.000	1.400	31.000	1.400	40.000	1.400	34.000	1.300	37.000	1.400	48.000	1.400	60.000	1.400	39.000	1.600	35.000	1.400
Zinc	mg/Kg	88.000	6.400	41.000	6.400	37.000	6.400	59.000	6.400	40.000	5.900	54.000	6.400	79.000	6.500	61.000	6.400	48.000	7.400	48.000	6.400
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Soluable Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Arsenic	ug/L	290.0	200.0	ND	200.0	2000.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	7000.0	200.0	16000.0	200.0	12000.0	200.0	6900.0	200.0	20000.0	200.0	6000.0	200.0	9900.0	200.0	12000.0	200.0	6500.0	200.0	7300.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	ND	20.0	21.0	20.0	ND	20.0	20.0	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Chromium	ug/L	920.0	20.0	150.0	20.0	140.0	20.0	270.0	20.0	230.0	20.0	570.0	20.0	770.0	20.0	130.0	20.0	640.0	20.0	670.0	20.0
Cobalt	ug/L	290.0	80.0	190.0	80.0	230.0	80.0	190.0	80.0	210.0	80.0	360.0	80.0	360.0	80.0	410.0	80.0	220.0	80.0	430.0	80.0
Copper	ug/L	ND	20.0	140.0	20.0	100.0	20.0	550.0	20.0	380.0	20.0	ND	20.0	23.0	20.0	420.0	20.0	ND	20.0	ND	20.0
Lead	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	200.0	200.0	400.0	200.0	ND	200.0	220.0	200.0	330.0	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	670.0	80.0	770.0	80.0	490.0	80.0	1900.0	80.0	1300.0	80.0	670.0	80.0	840.0	80.0	530.0	80.0	550.0	80.0	860.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	680.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	580.0	200.0	860.0	200.0	ND	200.0	390.0	200.0	630.0	200.0
Vanadium	ug/L	870.0	80.0	170.0	80.0	350.0	80.0	140.0	80.0	150.0	80.0	480.0	80.0	1000.0	80.0	460.0	80.0	680.0	80.0	750.0	80.0
Zinc	ug/L	4600.0	20.0	1200.0	20.0	800.0	20.0	1100.0	20.0	990.0	20.0	2600.0	20.0	5800.0	20.0	1100.0	20.0	2200.0	20.0	2900.0	20.0
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
4,4-DDT	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

*Lab missed hold time - Sample not analyzed

2001 Sediment Removal Project -
Analytical Data for Sediment Samples
Continuous Core Samples

		CalabazasCC06 (continuous)		CalabazasCC07 (continuous)		CalabazasCC08 (continuous)		CaleraMilCC01 (continuous)		CaleraEscCC01 (continuous)		CanoasCC01 (continuous)		CoyoteCC01 (continuous)		FlintCC01 (continuous)		FlintCC02 (continuous)		FlintCC03 (continuous)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.0210	0.0038	0.024	0.0034	0.0700	0.0034	0.1100	0.0044	0.0560	0.0035	0.2800	0.0038	0.0510	0.0036	0.3400	0.0040	0.5100	0.0036	0.1800	0.0038
Antimony	mg/Kg	ND	1.800	ND	1.800	ND	1.900	ND	1.700	ND	1.700	ND	1.600	ND	1.500	ND	1.800	ND	1.800	ND	1.800
Arsenic	mg/Kg	6.200	3.600	4.400	3.600	4.700	3.800	ND	3.400	9.100	3.400	5.800	3.200	8.400	3.100	6.400	3.600	8.500	3.600	6.900	3.600
Barium	mg/Kg	61.000	4.500	72.000	4.500	80.000	4.700	120.000	4.200	170.000	4.300	79.000	4.000	61.000	3.800	120.000	4.500	85.000	4.500	130.000	4.500
Beryllium	mg/Kg	ND	0.450	ND	0.450	ND	0.470	ND	0.420	ND	0.430	ND	0.400	ND	0.380	ND	0.450	ND	0.450	ND	0.450
Cadmium	mg/Kg	ND	0.550	ND	0.550	ND	0.570	0.610	0.510	ND	0.520	ND	0.480	ND	0.460	0.700	0.550	0.700	0.540	0.900	0.550
Chromium	mg/Kg	54.000	5.500	52.000	5.500	43.000	5.700	32.000	5.100	41.000	5.200	64.000	4.800	35.000	4.600	21.000	5.500	17.000	5.400	23.000	5.500
Cobalt	mg/Kg	12.000	0.910	11.000	0.910	9.000	0.940	6.800	0.850	8.900	0.860	11.000	0.810	8.900	0.760	4.600	0.910	3.900	0.900	5.400	0.910
Copper	mg/Kg	18.000	1.800	19.000	1.800	22.000	1.900	32.000	1.700	16.000	1.700	18.000	1.600	23.000	1.500	9.400	1.800	8.200	1.800	11.000	1.800
Lead	mg/Kg	7.100	4.500	5.300	4.500	ND	4.700	65.000	4.200	8.000	4.300	42.000	4.000	6.700	3.800	6.200	4.500	8.000	4.500	10.000	4.500
Molybdenum	mg/Kg	ND	0.910	ND	0.910	ND	0.940	ND	0.850	ND	0.860	ND	0.810	ND	0.760	ND	0.910	ND	0.900	ND	0.910
Nickel	mg/Kg	66.000	0.910	47.000	0.910	38.000	0.940	41.000	0.850	51.000	0.860	82.000	0.810	37.000	0.760	22.000	0.910	18.000	0.900	23.000	0.910
Selenium	mg/Kg	ND	4.500	ND	4.500	ND	4.700	ND	4.200	ND	4.300	ND	4.000	ND	3.800	ND	4.500	ND	4.500	ND	4.500
Silver	mg/Kg	ND	1.400	ND	1.400	ND	1.400	ND	1.300	ND	1.300	ND	1.200	ND	1.100	ND	1.400	ND	1.400	ND	1.400
Thallium	mg/Kg	ND	1.600	ND	1.600	ND	1.700	ND	1.500	1.900	1.600	4.000	1.500	5.800	1.400	2.200	1.600	ND	1.600	4.300	1.600
Vanadium	mg/Kg	47.000	1.400	54.000	1.400	47.000	1.400	26.000	1.300	34.000	1.300	27.000	1.200	31.000	1.100	27.000	1.400	23.000	1.400	27.000	1.400
Zinc	mg/Kg	52.000	6.400	49.000	6.400	70.000	6.600	150.000	5.900	44.000	6.000	140.000	5.600	48.000	5.300	34.000	6.400	38.000	6.300	45.000	6.400
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		0.408	0.070	Not Analyzed		Not Analyzed		Not Analyzed	
Soluable Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Arsenic	ug/L	ND	200.0	480.0	200.0	390.0	200.0	370.0	200.0	290.0	200.0	240.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	4400.0	200.0	5100.0	200.0	6600.0	200.0	11000.0	200.0	13000.0	200.0	7400.0	200.0	6300.0	200.0	7100.0	200.0	6200.0	200.0	7600.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	52.0	20.0	35.0	20.0	ND	20.0
Chromium	ug/L	100.0	20.0	120.0	20.0	140.0	20.0	270.0	20.0	79.0	20.0	760.0	20.0	200.0	20.0	75.0	20.0	110.0	20.0	150.0	20.0
Cobalt	ug/L	130.0	80.0	170.0	80.0	240.0	80.0	200.0	80.0	290.0	80.0	400.0	80.0	310.0	80.0	230.0	80.0	210.0	80.0	250.0	80.0
Copper	ug/L	110.0	20.0	130.0	20.0	200.0	20.0	45.0	20.0	190.0	20.0	ND	20.0	190.0	20.0	140.0	20.0	ND	20.0	ND	20.0
Lead	ug/L	ND	200.0	ND	200.0	ND	200.0	2600.0	200.0	ND	200.0	1200.0	200.0	410.0	200.0	250.0	200.0	3300.0	200.0	220.0	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	240.0	80.0	380.0	80.0	500.0	80.0	690.0	80.0	600.0	80.0	1500.0	80.0	690.0	80.0	430.0	80.0	480.0	80.0	610.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	ND	200.0	ND	200.0	ND	200.0	480.0	200.0	ND	200.0	790.0	200.0	410.0	200.0	270.0	200.0	550.0	200.0	830.0	200.0
Vanadium	ug/L	120.0	80.0	180.0	80.0	210.0	80.0	710.0	80.0	570.0	80.0	690.0	80.0	230.0	80.0	300.0	80.0	480.0	80.0	750.0	80.0
Zinc	ug/L	1600.0	20.0	1600.0	20.0	2500.0	20.0	9100.0	20.0	1900.0	20.0	6900.0	20.0	2100.0	20.0	1600.0	20.0	1600.0	20.0	2100.0	20.0
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	2.7	2.0	8.2	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
4,4-DDT	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	1.4	1.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	80.0	ND	80.0	ND	80.0	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

*Lab mis old time - Sample not analyzed
File: ks\ ample Results SC\ContCore

2001 Sedimen moval Project -
Analytical Data f ediment Samples
Continuous Core Samples

		FlintCC04 (continuous)		FlintCC05 (continuous)		GuadalupeCC01 (continuous)		GuadalupeCC02 (continuous)		GuadalupeCC03 (continuous)		LosCochesCC02 (continuous)		MataderoCC01 (continuous)		RandolCC01 (continuous)		RossCC01 (continuous)		RuckerCC01 (continuous)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.1600	0.0038	0.3700	0.0035	0.1100	0.0036	0.3800	0.0044	1.6000	0.0200	0.0290	0.0034	0.0510	0.0040	3.7000	0.0350	0.3200	0.0037	0.0310	0.0035
Antimony	mg/Kg	ND	1.800	ND	1.700	ND	1.800	ND	1.700	ND	1.600	ND	1.700	ND	1.800	ND	1.800	ND	1.700	ND	1.500
Arsenic	mg/Kg	6.600	3.500	6.600	3.400	12.000	3.600	8.800	3.400	5.800	3.300	3.700	3.300	6.200	3.600	6.000	3.600	5.400	3.500	12.000	3.100
Barium	mg/Kg	130.000	4.400	120.000	4.300	160.000	4.500	140.000	4.200	120.000	4.100	93.000	4.100	75.000	4.500	69.000	4.500	72.000	4.300	150.000	3.800
Beryllium	mg/Kg	ND	0.440	ND	0.430	ND	0.450	ND	0.420	ND	0.410	ND	0.410	ND	0.450	ND	0.450	ND	0.430	ND	0.380
Cadmium	mg/Kg	0.770	0.530	0.930	0.510	ND	0.540	ND	0.500	0.630	0.490	ND	0.500	ND	0.550	ND	0.540	ND	0.520	ND	0.460
Chromium	mg/Kg	24.000	5.300	20.000	5.100	62.000	5.400	52.000	5.000	69.000	4.900	22.000	5.000	46.000	5.500	100.000	5.400	42.000	5.200	37.000	4.600
Cobalt	mg/Kg	5.800	0.880	4.100	0.850	14.000	0.890	10.000	0.840	13.000	0.810	5.100	0.830	9.900	0.910	18.000	0.890	9.100	0.870	9.700	0.770
Copper	mg/Kg	11.000	1.800	7.600	1.700	32.000	1.800	26.000	1.700	43.000	1.600	9.300	1.700	28.000	1.800	24.000	1.800	13.000	1.700	26.000	1.500
Lead	mg/Kg	9.800	4.400	4.800	4.300	10.000	4.500	11.000	4.200	43.000	4.100	6.700	4.100	25.000	4.500	12.000	4.500	11.000	4.300	16.000	3.800
Molybdenum	mg/Kg	ND	0.880	ND	0.850	ND	0.890	ND	0.840	ND	0.810	ND	0.830	ND	0.910	ND	0.890	ND	0.870	ND	0.770
Nickel	mg/Kg	22.000	0.880	17.000	0.850	88.000	0.890	56.000	0.840	78.000	0.810	28.000	0.830	50.000	0.910	150.000	0.890	46.000	0.870	32.000	0.770
Selenium	mg/Kg	ND	4.400	ND	0.430	ND	4.500	ND	4.200	ND	4.100	ND	4.100	ND	4.500	ND	4.500	ND	4.300	ND	3.800
Silver	mg/Kg	ND	1.300	ND	1.300	ND	1.300	ND	1.300	ND	1.200	ND	1.200	ND	1.400	ND	1.300	ND	1.300	ND	1.200
Thallium	mg/Kg	4.200	1.600	3.100	1.500	9.900	1.600	4.800	1.500	7.200	1.500	ND	1.500	ND	1.600	2.300	1.600	ND	1.600	7.100	1.400
Vanadium	mg/Kg	29.000	1.300	25.000	1.300	45.000	1.300	46.000	1.300	44.000	1.200	19.000	1.200	35.000	1.400	47.000	1.300	39.000	1.300	37.000	1.200
Zinc	mg/Kg	49.000	6.200	33.000	6.000	66.000	6.200	55.000	5.900	150.000	5.700	33.000	5.800	66.000	6.400	110.000	6.200	75.000	6.100	51.000	5.400
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		0.072	0.070	0.380	0.070	0.795	0.070	Not Analyzed		Not Analyzed		0.225	0.070	Not Analyzed		Not Analyzed	
Soluable Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Arsenic	ug/L	370.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	310.0	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	8500.0	200.0	6900.0	200.0	10000.0	200.0	9600.0	200.0	8800.0	200.0	7100.0	200.0	5800.0	200.0	5800.0	200.0	5900.0	200.0	11000.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	42.0	20.0	ND	20.0	ND	20.0	38.0	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Chromium	ug/L	230.0	20.0	ND	20.0	310.0	20.0	210.0	20.0	700.0	20.0	47.0	20.0	760.0	20.0	2300.0	20.0	260.0	20.0	270.0	20.0
Cobalt	ug/L	280.0	80.0	ND	80.0	560.0	80.0	720.0	80.0	470.0	80.0	220.0	80.0	160.0	80.0	750.0	80.0	270.0	80.0	590.0	80.0
Copper	ug/L	24.0	20.0	49.0	20.0	220.0	20.0	250.0	20.0	1500.0	20.0	150.0	20.0	ND	20.0	ND	20.0	140.0	20.0	140.0	20.0
Lead	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	2000.0	200.0	ND	200.0	ND	200.0	ND	200.0	350.0	200.0	330.0	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	700.0	80.0	160.0	80.0	1600.0	80.0	1300.0	80.0	1400.0	80.0	430.0	80.0	820.0	80.0	5000.0	80.0	750.0	80.0	480.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	1200.0	200.0	ND	200.0	290.0	200.0	ND	200.0	570.0	200.0	ND	200.0	530.0	200.0	1200.0	200.0	300.0	200.0	550.0	200.0
Vanadium	ug/L	1100.0	80.0	ND	80.0	410.0	80.0	820.0	80.0	650.0	80.0	220.0	80.0	940.0	80.0	1000.0	80.0	350.0	80.0	670.0	80.0
Zinc	ug/L	2000.0	20.0	1800.0	20.0	1100.0	20.0	1200.0	20.0	7300.0	20.0	1800.0	20.0	2600.0	20.0	5600.0	20.0	3900.0	20.0	1500.0	20.0
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	200.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	6.0	ND	6.0	ND	6.0	13	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	3.3	2.0	ND	2.0	ND	2.0	3.3	2.0	3.8	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
4,4-DDT	ug/Kg	ND	6.0	ND	6.0	ND	6.0	14	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	20.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	60.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0	ND	1.0	ND	1.0	12	1.0	ND	1.0	ND	1.0	ND	10.0	ND	10.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	200.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	800.0	ND	800.0	ND	80.0	ND	80.0

*Lab missed hold time - Sample not analyzed

2001 Sediment Removal Project - Analytical Data for Sediment Samples
Continuous Core Samples

		SierraCC01 (continuous)	
Analyte	**units**	results	det. lim.
Total Metals, TTLC			
Mercury	mg/Kg	0.0290	0.0039
Antimony	mg/Kg	ND	1.800
Arsenic	mg/Kg	6.300	3.500
Barium	mg/Kg	120.000	4.400
Beryllium	mg/Kg	ND	0.440
Cadmium	mg/Kg	ND	0.530
Chromium	mg/Kg	62.000	5.300
Cobalt	mg/Kg	8.600	0.880
Copper	mg/Kg	15.000	1.800
Lead	mg/Kg	5.500	4.400
Molybdenum	mg/Kg	ND	0.880
Nickel	mg/Kg	100.000	0.880
Selenium	mg/Kg	ND	4.400
Silver	mg/Kg	ND	1.300
Thallium	mg/Kg	4.200	1.600
Vanadium	mg/Kg	26.000	1.300
Zinc	mg/Kg	40.000	6.200
Methyl Mercury, (EPA 1630 Modified)			
Methyl Mercury	ng/g	Not Analyzed	
Soluable Metals, STLC			
Mercury	ug/L	ND	1.0
Antimony	ug/L	ND	200.0
Arsenic	ug/L	ND	200.0
Barium	ug/L	6500.0	200.0
Beryllium	ug/L	ND	20.0
Cadmium	ug/L	22.0	20.0
Chromium	ug/L	430.0	20.0
Cobalt	ug/L	220.0	80.0
Copper	ug/L	56.0	20.0
Lead	ug/L	ND	200.0
Molybdenum	ug/L	ND	80.0
Nickel	ug/L	1200.0	80.0
Selenium	ug/L	ND	200.0
Silver	ug/L	ND	20.0
Thallium	ug/L	240.0	200.0
Vanadium	ug/L	200.0	80.0
Zinc	ug/L	1400.0	20.0
Pesticides (EPA 8081)			
Aldrin	ug/Kg	ND	1.0
alpha-BHC	ug/Kg	ND	1.0
beta-BHC	ug/Kg	ND	1.0
delta-BHC	ug/Kg	ND	1.0
gamma-BHC	ug/Kg	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0
4,4-DDD	ug/Kg	ND	6.0
4,4-DDE	ug/Kg	ND	2.0
4,4-DDT	ug/Kg	ND	6.0
Dieldrin	ug/Kg	ND	2.0
Endosulfan I	ug/Kg	ND	2.0
Endosulfan II	ug/Kg	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0
Endrin	ug/Kg	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0
Endrin keytone	ug/Kg	ND	6.0
Heptachlor	ug/Kg	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0
Methoxychlor	ug/Kg	ND	20.0
Toxaphene	ug/Kg	ND	80.0

*Lab missed hold time - Sample not analyzed

Analytical Data f diment Samples
Continuous Core Samples

Analyte	units	AdobeCC01 (continuous) results	det. lim.	BerryMilCC01 (continuous) results	det. lim.	BerryMilCC02 (continuous) results	det. lim.	BerryCropCC01 (continuous) results	det. lim.	BerryPiedCC01 (continuous) results	det. lim.	CalabazasCC01 (continuous) results	det. lim.	CalabazasCC02 (continuous) results	det. lim.	CalabazasCC03 (continuous) results	det. lim.	CalabazasCC04 (continuous) results	det. lim.	CalabazasCC05 (continuous) results	det. lim.
PCBs (8082)																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Organophosphorous Comp. (EPA 8141)																					
Azinphos-methyl	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Bolstar	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Chloropyrifos	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Coumaphos	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Demeton	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Diazanon	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Dichlorvos	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Disulfoton	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Ethion	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Ethoprop	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
EPN	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Fensulfothion	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Fenthion	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Malathion	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Merphos	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Mevinphos	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Monocrotophos	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Naled	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Parathion-ethyl	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Parathion-methyl	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Phorate	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Ronnel	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Stirophos	ug/Kg	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40	Not Analyzed		Not Analyzed	
Sulfotep	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
Trichloronate	ug/Kg	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20	Not Analyzed		Not Analyzed	
PAHs (EPA 8310)																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	2000	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	100000	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	2000	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	1500	400	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	130.0	10	ND	10	ND	10	ND	10	ND	10	8300	200	46	10	ND	10	12	10	18	10
Anthracene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	2300	200	ND	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	360.0	20	ND	20	ND	20	ND	20	ND	20	8100	400	110	20	ND	20	33	20	60	20
Pyrene	ug/Kg	300.0	10	ND	10	ND	10	ND	10	ND	10	6800	200	110	10	ND	10	39	10	51	10
Benzo(a)anthracene	ug/Kg	96.0	10	ND	10	ND	10	ND	10	ND	10	2500	200	31	10	ND	10	14	10	16	10
Chrysene	ug/Kg	180.0	10	ND	10	ND	10	ND	10	ND	10	3100	200	55	10	ND	10	18	10	31	10
Benzo(b)fluoranthene	ug/Kg	170.0	20	ND	20	ND	20	ND	20	ND	20	2000	400	61	20	ND	20	25	20	33	20
Benzo(k)fluoranthene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	1100	200	28	10	ND	10	ND	10	18	10
Benzo(a)pyrene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	2400	200	56	10	ND	10	21	10	30	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	400	40	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	170.0	20	ND	20	ND	20	ND	20	ND	20	1500	400	76	20	ND	20	29	20	28	20
Indeno(1,2,3-cd)pyrene	ug/Kg	210.0	20	ND	20	ND	20	ND	20	ND	20	1600	400	49	20	ND	20	ND	20	30	20
Moisture Content (EPA 160.3)																					
Moisture Content	%	37	0.10	Not Analyzed		20.0	0.10	5.7	0.10	5.8	0.10	Not Analyzed		Not Analyzed		80	0.10	Not Analyzed		Not Analyzed	
TEH-Kerosene/Diesel (DHS-LUFT)																					
Kerosene C9-C18	mg/Kg	31	10	Not Analyzed		ND	1.0	2.9	1.0	2.1	1.0	Not Analyzed		Not Analyzed		ND	1.0	Not Analyzed		Not Analyzed	
Diesel	mg/Kg	100	10	Not Analyzed		3.1	1.0	5.7	1.0	3.6	1.0	Not Analyzed		Not Analyzed		1.6	1.0	Not Analyzed		Not Analyzed	

*Lab missed hold time - Sample not analyzed

2001 Sediment Removal Project -
Analytical Data for Sediment Samples
Continuous Core Samples

		CalabazasCC06		**CalabazasCC07**		**CalabazasCC08**		**CaleraMilCC01**		**CaleraEscCC01**		**CanoasCC01**		**CoyoteCC01**		**FlintCC01**		**FlintCC02**		**FlintCC03**	
		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
PCBs (8082)																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Organophosphorous Comp. (EPA 8141)																					
Azinphos-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Bolstar	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Chloropyrifos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Coumaphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Demeton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Diazanon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorvos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Disulfoton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Ethion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Ethoprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
EPN	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Fensulfothion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Fenthion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Malathion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Merphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Mevinphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Monocrotophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Naled	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Parathion-ethyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Parathion-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Phorate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Ronnel	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Stirophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		Not Analyzed	
Sulfotep	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
Trichloronate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		Not Analyzed	
PAHs (EPA 8310)																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	77	20	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	ND	10	25	10	13	10	35	10	ND	10	940	10	ND	10	ND	10	ND	10	ND	10
Anthracene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	110	10	ND	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	ND	20	68	20	40	20	110	20	ND	20	1700	100	ND	20	ND	20	ND	20	ND	20
Pyrene	ug/Kg	ND	10	68	10	36	10	110	10	ND	10	1400	50	ND	10	ND	10	ND	10	ND	10
Benzo(a)anthracene	ug/Kg	ND	10	21	10	10	10	48	10	ND	10	500	50	ND	10	ND	10	ND	10	ND	10
Chrysene	ug/Kg	ND	10	40	10	19	10	60	10	ND	10	700	50	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	ug/Kg	ND	20	34	20	32	20	110	20	ND	20	570	20	ND	20	ND	20	ND	20	ND	20
Benzo(k)fluoranthene	ug/Kg	ND	10	16	10	11	10	410	10	ND	10	250	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	ug/Kg	ND	10	30	10	20	10	220	10	ND	10	610	50	ND	10	ND	10	ND	10	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	100	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	ND	20	26	20	ND	20	70	20	ND	20	540	20	ND	20	ND	20	ND	20	ND	20
Indeno(1,2,3-cd)pyrene	ug/Kg	ND	20	32	20	ND	20	100	20	ND	20	270	20	ND	20	ND	20	ND	20	ND	20
Moisture Content (EPA 160.3)																					
Moisture Content	%	Not Analyzed		Not Analyzed		Not Analyzed		53	0.10	20	0.10	24	0.10	16	0.10	8.0	0.10	Not Analyzed		Not Analyzed	
TEH-Kerosene/Diesel (DHS-LUFT)																					
Kerosene C9-C18	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		34	4.0	2.0	1.0	16	4.0	ND	1.0	2.1	1.0	Not Analyzed		Not Analyzed	
Diesel	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		160.0	4.0	5.2	1.0	82	4.0	3.7	1.0	6.3	1.0	Not Analyzed		Not Analyzed	

*Lab mi hold time - Sample not analyzed

Analytical Data ediment Samples
Continuous Core Samples

Analyte	units	FlintCC04 (continuous)		FlintCC05 (continuous)		GuadalupeCC01 (continuous)		GuadalupeCC02 (continuous)		GuadalupeCC03 (continuous)		LosCochesCC02 (continuous)		MataderoCC01 (continuous)		RandolCC01 (continuous)		RossCC01 (continuous)		RuckerCC01 (continuous)	
		results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
PCBs (8082)																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Organophosphorous Comp. (EPA 8141)																					
Azinphos-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Bolstar	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Chloropyrifos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Coumaphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Demeton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Diazanon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Dichlorvos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Disulfoton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Ethion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Ethoprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
EPN	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Fensulfothion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Fenthion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Malathion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Merphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Mevinphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Monocrotophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Naled	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Parathion-ethyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Parathion-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Phorate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Ronnel	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Stirophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	Not Analyzed		Not Analyzed		ND	40
Sulfotep	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
Trichloronate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	Not Analyzed		Not Analyzed		ND	20
PAHs (EPA 8310)																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	22	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	ND	10	ND	10	ND	10	15	10	54	10	13	10	250	10	ND	10	ND	10	ND	10
Anthracene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	140	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	ND	20	ND	20	ND	20	33	20	160	20	39	20	630	20	ND	20	ND	20	ND	20
Pyrene	ug/Kg	ND	10	ND	10	ND	10	41	10	150	10	25	10	450	20	35	10	ND	10	ND	10
Benzo(a)anthracene	ug/Kg	ND	10	ND	10	ND	10	13	10	35	10	ND	10	210	10	11	10	ND	10	ND	10
Chrysene	ug/Kg	ND	10	ND	10	ND	10	ND	10	89	10	15	10	280	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	ug/Kg	ND	20	ND	20	ND	20	63	20	120	20	ND	20	250	20	ND	20	ND	20	ND	20
Benzo(k)fluoranthene	ug/Kg	ND	10	ND	10	ND	10	ND	10	47	10	ND	10	300	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	ug/Kg	ND	10	ND	10	ND	10	64	10	100	10	17	10	320	10	ND	10	ND	10	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	ND	20	ND	20	ND	20	ND	20	130	20	ND	20	210	20	ND	20	ND	20	ND	20
Indeno(1,2,3-cd)pyrene	ug/Kg	ND	20	ND	20	ND	20	ND	20	110	20	ND	20	140	20	ND	20	ND	20	ND	20
Moisture Content (EPA 160.3)																					
Moisture Content	%	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		33	0.10	28	0.10	42	0.10	33	0.10	16	0.10	24	0.10
TEH-Kerosene/Diesel (DHS-LUFT)																					
Kerosene C9-C18	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		8.7	1.0	3.9	1.0	ND	1.0	17	1.0	ND	1.0	ND	1.0
Diesel	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		51.0	1.0	13.0	1.0	33.0	1.0	31.0	1.0	2.9	1.0	1.2	1.0

*Lab missed hold time - Sample not analyzed

2001 Sediment Removal Project -
Analytical Data for Sediment Samples
Continuous Core Samples

		SierraCC01 (continuous)	
Analyte	**units**	results	det. lim.
PCBs (8082)			
PCB-1016	ug/Kg	Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed	
Organophosphorous Comp. (EPA 8141)			
Azinphos-methyl	ug/Kg	ND	40
Bolstar	ug/Kg	ND	20
Chloropyrifos	ug/Kg	ND	20
Coumaphos	ug/Kg	ND	40
Demeton	ug/Kg	ND	20
Diazanon	ug/Kg	ND	20
Dichlorvos	ug/Kg	ND	20
Disulfoton	ug/Kg	ND	20
Ethion	ug/Kg	ND	20
Ethoprop	ug/Kg	ND	20
EPN	ug/Kg	ND	20
Fensulfothion	ug/Kg	ND	20
Fenthion	ug/Kg	ND	20
Malathion	ug/Kg	ND	20
Merphos	ug/Kg	ND	20
Mevinphos	ug/Kg	ND	20
Monocrotophos	ug/Kg	ND	40
Naled	ug/Kg	ND	40
Parathion-ethyl	ug/Kg	ND	20
Parathion-methyl	ug/Kg	ND	20
Phorate	ug/Kg	ND	20
Ronnel	ug/Kg	ND	20
Stirophos	ug/Kg	ND	40
Sulfotep	ug/Kg	ND	20
Tokuthion (Prothiofos)	ug/Kg	ND	20
Trichloronate	ug/Kg	ND	20
PAHs (EPA 8310)			
Naphthalene	ug/Kg	ND	100
Acenaphthylene	ug/Kg	ND	500
Acenaphthene	ug/Kg	ND	100
Fluorene	ug/Kg	ND	20
Phenanthrene	ug/Kg	ND	10
Anthracene	ug/Kg	ND	10
Flouranthene	ug/Kg	29	20
Pyrene	ug/Kg	15	10
Benzo(a)anthracene	ug/Kg	12	10
Chrysene	ug/Kg	ND	10
Benzo(b)fluoranthene	ug/Kg	28	20
Benzo(k)fluoranthene	ug/Kg	ND	10
Benzo(a)pyrene	ug/Kg	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20
Benzo(ghi)perylene	ug/Kg	ND	20
Indeno(1,2,3-cd)pyrene	ug/Kg	ND	20
Moisture Content (EPA 160.3)			
Moisture Content	%	21	0.10
TEH-Kerosene/Diesel (DHS-LUFT)			
Kerosene C9-C18	mg/Kg	1.6	1.0
Diesel	mg/Kg	5.4	1.0

*Lab mis[illegible] hold time - Sample not analyzed

2001 Sedime moval Project -
Analytical Data for Sediment Samples
Continuous Core Samples

		AdobeCC01 (continuous)		BerryMilCC01 (continuous)		BerryMilCC02 (continuous)		BerryCropCC01 (continuous)		BerryPiedCC01 (continuous)		CalabazasCC01 (continuous)		CalabazasCC02 (continuous)		CalabazasCC03 (continuous)		CalabazasCC04 (continuous)		CalabazasCC05 (continuous)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)																					
Total Organic Carbon	mg/Kg	24000	200	Not Analyzed		770	200	1600	200	1200	200	Not Analyzed		Not Analyzed		5900	200	Not Analyzed		Not Analyzed	
Chloride (EPA 325.2)																					
Chloride	mg/Kg	38	1.0	Not Analyzed		120.0	10	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		120	10	Not Analyzed		Not Analyzed	
pH (EPA 9045C)																					
		7.55	0.200	Not Analyzed		8.45	0.200	8.08	0.200	8.38	0.200	Not Analyzed		Not Analyzed		8.44	0.200	Not Analyzed		Not Analyzed	
Sulfide																					
	mg/Kg	ND	10	Not Analyzed		ND	10	ND	10	ND	10	Not Analyzed		Not Analyzed		ND	10	Not Analyzed		Not Analyzed	
Ammonia (EPA 350.1)																					
	mg/Kg	ND	2.0	Not Analyzed		ND	2.0	ND	2.0	ND	2.0	Not Analyzed		Not Analyzed		ND	2.0	Not Analyzed		Not Analyzed	
Chlorinated Herbicides (EPA 8151)																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)																					
Rodeo, Roundup (Glyphosate)	ug/g	ND	0.050	Not Analyzed		ND	0.050	ND	0.050	ND	0.050	Not Analyzed		Not Analyzed		ND	0.050	Not Analyzed		Not Analyzed	
Rodeo, Roundup (AMPA)		0.091	0.050	Not Analyzed		ND	0.050	ND	0.050	ND	0.050	Not Analyzed		Not Analyzed		ND	0.050	Not Analyzed		Not Analyzed	
Gallery (Isoxaben)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	1.000	Not Analyzed		Not Analyzed	
Surflan (Oryzalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar (Chlorsulfuron)		Not Analyzed		Not Analyzed		ND	0.100	ND	0.100	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum (Pendimethalin)		ND	1.000	Not Analyzed		ND	1.000	ND	1.000	ND	1.000	Not Analyzed		Not Analyzed		ND	1.000	Not Analyzed		Not Analyzed	

*Lab missed hold time - Sample not analyzed

Analytical Data for Sediment Samples

Continuous Core Samples

		CalabazasCC06 (continuous)		CalabazasCC07 (continuous)		CalabazasCC08 (continuous)		CaleraMilCC01 (continuous)		CaleraEscCC01 (continuous)		CanoasCC01 (continuous)		CoyoteCC01 (continuous)		FlintCC01 (continuous)		FlintCC02 (continuous)		FlintCC03 (continuous)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)																					
Total Organic Carbon	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		*		7900	200	6600	200	3200	200	6000	200	Not Analyzed		Not Analyzed	
Chloride (EPA 325.2)																					
Chloride	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		380	10	Not Analyzed		Not Analyzed		Not Analyzed	
pH (EPA 9045C)																					
		Not Analyzed		Not Analyzed		Not Analyzed		7.40	0.200	7.94	0.200	8.44	0.200	8.26	0.200	8.25	0.200	Not Analyzed		Not Analyzed	
Sulfide																					
	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		120	10	ND	10	140	10	ND	10	ND	10	Not Analyzed		Not Analyzed	
Ammonia (EPA 350.1)																					
	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		ND	2.0	ND	2.0	2.8	2.0	ND	2.0	ND	2.0	Not Analyzed		Not Analyzed	
Chlorinated Herbicides (EPA 8151)																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)																					
Rodeo, Roundup (Glyphosate)	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		0.140	0.050	Not Analyzed		ND	0.050	Not Analyzed		Not Analyzed	
Rodeo, Roundup (AMPA)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		0.140	0.050	Not Analyzed		ND	0.050	Not Analyzed		Not Analyzed	
Gallery (Isoxaben)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Surflan (Oryzalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	5.000	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar (Chlorsulfuron)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	0.100	Not Analyzed		Not Analyzed	
Pendulum (Pendimethalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	1.000	ND	1.000	Not Analyzed		Not Analyzed	

*Lab missed hold time - Sample not analyzed

Analytical Data Sediment Samples
Continuous Core Samples

		FlintCC04		FlintCC05		GuadalupeCC01		GuadalupeCC02		GuadalupeCC03		LosCochesCC02		MataderoCC01		RandolCC01		RossCC01		RuckerCC01	
		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)		(continuous)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)																					
Total Organic Carbon	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		17000	200	12000	200	13000	200	13000	200	2200	200	2200	200
Chloride (EPA 325.2)																					
Chloride	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		12	1.0	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
pH (EPA 9045C)																					
		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		7.90	0.200	8.01	0.200	7.38	0.200	8.30	0.200	8.53	0.200	7.76	0.200
Sulfide																					
	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	10	ND	10	16	10	320	10	ND	10	ND	10
Ammonia (EPA 350.1)																					
	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	2.0	ND	2.0	4.3	2.0	3.4	2.0	ND	2.0	ND	2.0
Chlorinated Herbicides (EPA 8151)																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)																					
Rodeo, Roundup (Glyphosate)	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	0.050	ND	0.050	0.110	0.050	Not Analyzed		Not Analyzed		Not Analyzed	
Rodeo, Roundup (AMPA)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	0.050	0.097	0.050	0.089	0.050	Not Analyzed		Not Analyzed		Not Analyzed	
Gallery (Isoxaben)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	1.000	Not Analyzed		ND	1.000	Not Analyzed		Not Analyzed		Not Analyzed	
Surflan (Oryzalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	5.000	ND	5.000	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar (Chlorsulfuron)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum (Pendimethalin)		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	1.000	Not Analyzed		Not Analyzed		Not Analyzed	

*Lab missed hold time - Sample not analyzed

Analytical Data for Sediment Samples
Continuous Core Samples

		SierraCC01 (continuous)	
Analyte	**units**	results	det. lim.
Total Organic Carbon (EPA 415.2)			
Total Organic Carbon	mg/Kg	3400	200
Chloride (EPA 325.2)			
Chloride	mg/Kg	Not Analyzed	
pH (EPA 9045C)			
		8.31	0.200
Sulfide			
	mg/Kg	ND	10
Ammonia (EPA 350.1)			
	mg/Kg	ND	2.0
Chlorinated Herbicides (EPA 8151)			
2,4-D	ug/Kg	Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed	
Dalapon	ug/Kg	Not Analyzed	
Dicamba	ug/Kg	Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed	
MCPA	ug/Kg	Not Analyzed	
MCPP	ug/Kg	Not Analyzed	
Herbicides (Various)			
Rodeo, Roundup (Glyphosate)	ug/g	Not Analyzed	
Rodeo, Roundup (AMPA)		Not Analyzed	
Gallery (Isoxaben)		Not Analyzed	
Surflan (Oryzalin)		Not Analyzed	
Telar (Chlorsulfuron)		Not Analyzed	
Pendulum (Pendimethalin)		Not Analyzed	

*Lab missed hold time - Sample not analyzed
File: ks\2[illegible] Sample Results SC\ContCore

2001 Sediment Removal Project -
Analytical Data for Sediment Samples
Composite Samples

		Adobe01A		BerryMil01		BerryMil02		BerryCrop01		BerryPied01		Calabazas01		Calabazas02		Calabazas03		Calabazas04		Calabazas05	
		(comp A)		(comp ABC)		(comp ABC)		(comp ABC)		(comp AB)		(comp ABCD)		(comp ABCD)		(comp ABCD)		(comp ABCD)		(comp ABCD)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.6800	0.0038	0.0440	0.0040	0.0530	0.0043	0.1200	0.00380	0.1400	0.0039	0.0680	0.0035	0.0570	0.0041	0.0780	0.0039	0.0480	0.0040	0.0560	0.0041
Antimony	mg/Kg	ND	1.800	ND	1.800	ND	1.700	ND	1.700	ND	1.700	ND	1.900	ND	2.100	ND	2.100	ND	1.900	ND	1.900
Arsenic	mg/Kg	6.300	3.600	5.800	3.500	9.300	3.400	9.100	3.500	10.000	3.400	5.000	3.700	7.300	4.100	6.700	4.300	4.100	3.900	6.000	3.800
Barium	mg/Kg	86.000	4.500	130.000	4.400	88.000	4.300	97.000	4.300	140.000	4.200	110.000	4.600	130.000	5.200	120.000	5.300	110.000	4.900	93.000	4.800
Beryllium	mg/Kg	ND	0.450	ND	0.440	ND	0.430	ND	0.430	ND	0.420	ND	0.460	ND	0.520	ND	0.530	ND	0.490	ND	0.480
Cadmium	mg/Kg	ND	0.550	ND	0.530	ND	0.510	ND	0.520	ND	0.500	ND	0.560	ND	0.620	ND	0.640	ND	0.580	ND	0.580
Chromium	mg/Kg	87.000	5.500	41.000	5.300	30.000	5.100	44.000	5.200	37.000	5.000	56.000	5.600	59.000	6.200	56.000	6.400	59.000	5.800	39.000	5.800
Cobalt	mg/Kg	16.000	0.910	9.200	0.880	7.800	0.850	8.900	0.870	10.000	0.840	15.000	0.930	17.000	1.000	16.000	1.100	15.000	0.970	10.000	0.960
Copper	mg/Kg	31.000	1.800	14.000	1.800	19.000	1.700	28.000	1.700	24.000	1.700	26.000	1.900	27.000	2.100	27.000	2.100	23.000	1.900	19.000	1.900
Lead	mg/Kg	14.000	4.500	7.200	4.400	7.200	4.300	7.400	4.300	7.800	4.200	13.000	4.600	15.000	5.200	13.000	5.300	9.800	4.900	9.900	4.800
Molybdenum	mg/Kg	ND	0.910	ND	0.880	ND	0.850	ND	0.870	ND	0.840	ND	0.930	ND	1.000	ND	1.100	ND	0.970	ND	0.960
Nickel	mg/Kg	62.000	0.910	75.000	0.880	40.000	0.850	51.000	0.870	59.000	0.840	63.000	0.930	66.000	1.000	65.000	1.100	58.000	0.970	46.000	0.960
Selenium	mg/Kg	4.600	4.500	ND	4.400	ND	0.430	ND	4.300	ND	4.200	ND	4.600	ND	5.200	ND	5.300	ND	4.900	ND	4.800
Silver	mg/Kg	ND	1.400	ND	1.300	ND	1.300	ND	1.300	ND	1.300	ND	1.400	ND	1.500	ND	1.600	ND	1.500	ND	1.400
Thallium	mg/Kg	ND	1.600	ND	1.600	1.500	1.500	8.600	1.600	8.300	1.500	ND	1.700	ND	1.900	ND	1.900	ND	1.700	ND	1.700
Vanadium	mg/Kg	71.000	1.400	28.000	1.300	29.000	1.300	39.000	1.300	39.000	1.300	55.000	1.400	56.000	1.500	53.000	1.600	56.000	1.500	38.000	1.400
Zinc	mg/Kg	81.000	6.400	40.000	6.100	41.000	6.000	62.000	6.100	54.000	5.900	75.000	6.500	71.000	7.200	76.000	7.400	67.000	6.800	66.000	6.700
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Soluable Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Arsenic	ug/L	290.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	5300.0	200.0	9300.0	200.0	7100.0	200.0	7400.0	200.0	8400.00	200.0	9700.0	200.0	9300.0	200.0	9600.0	200.0	8000.0	200.0	8400.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Chromium	ug/L	740.0	20.0	210.0	20.0	170.0	20.0	260.0	20.0	230.00	20.0	200.0	20.0	190.0	20.0	190.0	20.0	190.0	20.0	260.0	20.0
Cobalt	ug/L	310.0	80.0	270.0	80.0	190.0	80.0	190.0	80.0	230.00	80.0	610.0	80.0	610.0	80.0	620.0	80.0	480.0	80.0	430.0	80.0
Copper	ug/L	ND	20.0	43.0	20.0	260.0	20.0	330.0	20.0	340.00	20.0	600.0	20.0	530.0	20.0	560.0	20.0	450.0	20.0	52.0	20.0
Lead	ug/L	ND	200.0	260.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	210.0	200.0	220.0	200.0	210.0	200.0	310.0	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	640.0	80.0	1100.0	80.0	610.0	80.0	1400.0	80.0	1200.00	80.0	920.0	80.0	910.0	80.0	880.0	80.0	760.0	80.0	710.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	860.0	200.0	340.0	200.0	ND	200.0	ND	200.0	ND	200.0	220.0	200.0	ND	200.0	200.0	200.0	ND	200.0	300.0	200.0
Vanadium	ug/L	860.0	80.0	470.0	80.0	280.0	80.0	170.0	80.0	180.00	80.0	520.0	80.0	470.0	80.0	460.0	80.0	370.0	80.0	540.0	80.0
Zinc	ug/L	3400.0	20.0	2200.0	20.0	1600.0	20.0	1400.0	20.0	1200.00	20.0	3900.0	20.0	3400.0	20.0	3700.0	20.0	3200.0	20.0	4300.0	20.0
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	2.0	ND	2.0
delta-BHC	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	200.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	3.2	2.0	4.0	2.0	ND	2.0	4.1	2.0
4,4-DDT	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	20.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	60.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	10.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	200.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	800.0	ND	80.0	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

*Lab missed hold time - Sample not analyzed

2001 Sediment Removal Project -
Analytical Data for Sediment Samples
Composite Samples

		Calabazas06 (comp ABCD)		Calabazas07 (comp ABCD)		Calabazas08 (comp AB)		CaleraMil01 (comp A)		CaleraEsc01 (comp A)		Canoas01 (comp ABCD)		Coyote01 (comp A)		Guadalupe01 (comp ABCD)		Guadalupe02 (comp ABCD)		Guadalupe03 (comp AB)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Metals, TTLC																					
Mercury	mg/Kg	0.026	0.0035	0.0200	0.0042	0.0240	0.0035	0.0470	0.0044	ND	0.0044	0.180	0.0033	0.1300	0.0034	2.000	0.021	2.600	0.021	3.100	0.039
Antimony	mg/Kg	ND	2.0	ND	1.900	1.800	1.800	1.700	1.600	ND	1.600	ND	1.800	ND	1.800	ND	1.800	ND	1.700	ND	1.800
Arsenic	mg/Kg	5.200	4.1	ND	3.700	7.200	3.600	8.600	3.300	4.800	3.200	4.100	3.500	9.100	3.500	13.000	3.600	11.000	3.400	11.000	3.600
Barium	mg/Kg	72.000	5.1	39.000	4.700	80.000	4.500	160.000	4.100	120.000	4.000	120.000	4.400	88.000	4.400	120.000	4.500	120.000	4.300	160.000	4.500
Beryllium	mg/Kg	ND	0.51	ND	0.470	ND	0.450	ND	0.410	ND	0.400	ND	0.440	ND	0.440	ND	0.450	ND	0.430	ND	0.450
Cadmium	mg/Kg	ND	0.61	ND	0.560	ND	0.550	ND	0.490	ND	0.480	ND	0.530	ND	0.530	ND	0.540	ND	0.520	0.800	0.540
Chromium	mg/Kg	61.000	6.1	31.000	5.600	84.000	5.500	37.000	4.900	28.000	4.800	78.000	5.300	47.000	5.300	65.000	5.400	61.000	5.200	77.000	5.400
Cobalt	mg/Kg	12.000	1.0	7.600	0.930	14.000	0.910	8.700	0.810	7.000	0.800	18.000	0.880	8.700	0.880	13.000	0.900	14.000	0.860	16.000	0.900
Copper	mg/Kg	20.000	2.0	11.000	1.900	34.000	1.800	17.000	1.600	13.000	1.600	29.000	1.800	23.000	1.800	29.000	1.800	30.000	1.700	49.000	1.800
Lead	mg/Kg	6.500	5.1	4.800	4.700	6.400	4.500	7.700	4.100	4.600	4.000	29.000	4.400	16.000	4.400	20.000	4.500	25.000	4.300	58.000	4.500
Molybdenum	mg/Kg	ND	1.0	ND	0.930	ND	0.910	ND	0.810	ND	0.800	ND	0.880	ND	0.880	ND	0.900	ND	0.860	ND	0.900
Nickel	mg/Kg	48.000	1.0	36.000	0.930	65.000	0.910	46.000	0.810	35.000	0.800	110.000	0.880	56.000	0.880	86.000	0.900	86.000	0.860	110.000	0.900
Selenium	mg/Kg	ND	5.1	ND	4.700	ND	4.500	ND	4.100	ND	4.000	ND	4.400	ND	4.400	ND	4.500	ND	4.300	ND	4.500
Silver	mg/Kg	ND	1.5	ND	1.400	ND	1.400	ND	1.200	ND	1.200	ND	1.300	ND	1.300	ND	1.400	ND	1.300	ND	1.400
Thallium	mg/Kg	ND	1.8	ND	1.700	ND	1.600	ND	1.500	ND	1.400	5.500	1.600	6.200	1.600	6.100	1.600	4.300	1.600	4.700	1.600
Vanadium	mg/Kg	54.000	1.5	31.000	1.400	61.000	1.400	33.000	1.200	27.000	1.200	30.000	1.300	31.000	1.300	41.000	1.400	44.000	1.300	48.000	1.400
Zinc	mg/Kg	54.000	7.1	33.000	6.500	59.000	6.400	47.000	5.700	35.000	5.600	150.000	6.100	72.000	6.100	72.000	6.300	74.000	6.000	160.000	6.300
Methyl Mercury, (EPA 1630 Modified)																					
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		2.898	0.070	0.217	0.070	1.066	0.070	1.307	0.070
Soluable Metals, STLC																					
Mercury	ug/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.00	ND	1.0	ND	1.0	ND	1.0	ND	1.00
Antimony	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.00	ND	200.0	ND	200.0	ND	200.0	ND	200.00
Arsenic	ug/L	310.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.00	ND	200.0	ND	200.0	ND	200.0	880.0	200.00
Barium	ug/L	5300.0	200.0	5700.0	200.0	5000.0	200.0	12000.0	200.0	8100.0	200.0	8200.0	200.00	7300.0	200.0	8600.0	200.0	8200.0	200.0	11000.0	200.00
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.00	ND	20.0	ND	20.0	ND	20.0	ND	20.00
Cadmium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.00	ND	20.0	ND	20.0	ND	20.0	49.0	20.00
Chromium	ug/L	110.0	20.0	97.0	20.0	92.0	20.0	110.0	20.0	68.0	20.0	890.0	20.00	340.0	20.0	290.0	20.0	390.0	20.0	770.0	20.00
Cobalt	ug/L	160.0	80.0	150.0	80.0	120.0	80.0	280.0	80.0	200.0	80.0	670.0	80.00	310.0	80.0	440.0	80.0	510.0	80.0	660.0	80.00
Copper	ug/L	120.0	20.0	110.0	20.0	94.0	20.0	270.0	20.0	240.0	20.0	20.0	20.00	ND	20.0	470.0	20.0	660.0	20.0	1600.0	20.00
Lead	ug/L	ND	200.0	ND	200.0	ND	200.0	300.0	200.0	ND	200.0	730.0	200.00	750.0	200.0	450.0	200.0	640.0	200.0	2500.0	200.00
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.00	ND	80.0	ND	80.0	ND	80.0	ND	80.00
Nickel	ug/L	310.0	80.0	320.0	80.0	240.0	80.0	590.0	80.0	390.0	80.0	2500.0	80.00	800.0	80.0	1200.0	80.0	1500.0	80.0	2300.0	80.00
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.00	ND	200.0	ND	200.0	ND	200.0	ND	200.00
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.00	ND	20.0	ND	20.0	ND	20.0	ND	20.00
Thallium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	230.0	200.0	660.0	200.00	680.0	200.0	250.0	200.0	350.0	200.0	510.0	200.00
Vanadium	ug/L	170.00	80.0	150.0	80.0	120.0	80.0	400.0	80.0	320.0	80.0	570.0	80.00	360.0	80.0	360.0	80.0	440.0	80.0	750.0	80.00
Zinc	ug/L	1700.00	20.0	1700.0	20.0	1400.0	20.0	3300.0	20.0	1500.0	20.0	11000.0	20.00	3400.0	20.0	1700.0	20.0	2400.0	20.0	9000.0	20.00
Pesticides (EPA 8081)																					
Aldrin	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	3.0	16	2.0	6.6	2.0	11	2.0
4,4-DDT	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	19	6.0	7.7	6.0	ND	6.0
Dieldrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	4.0
Endosulfan I	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	8.0	1.0
Methoxychlor	ug/Kg	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

*Lab missed hold time - Sample not analyzed

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Analyte	units	LosCoches01 (comp AB) results	LosCoches01 (comp AB) det. lim.	Matadero01 (comp ABCD) results	Matadero01 (comp ABCD) det. lim.	Randol01 (comp A) results	Randol01 (comp A) det. lim.	Ross01 (comp A) results	Ross01 (comp A) det. lim.	Rucker01 (comp A) results	Rucker01 (comp A) det. lim.	Sierra01 (comp A) results	Sierra01 (comp A) det. lim.
Total Metals, TTLC													
Mercury	mg/Kg	0.0500	0.0046	0.0670	0.0036	1.800	0.018	0.0260	0.0036	0.0240	0.0041	0.0220	0.0036
Antimony	mg/Kg	ND	1.700	ND	1.800	1.800	1.700	ND	1.800	ND	1.800	ND	1.800
Arsenic	mg/Kg	7.200	3.400	6.200	3.600	8.600	3.400	7.200	3.600	8.100	3.600	ND	3.500
Barium	mg/Kg	98.000	4.200	92.000	4.500	83.000	4.300	79.000	4.500	110.000	4.500	55.000	4.400
Beryllium	mg/Kg	ND	0.420	ND	0.450	ND	0.430	ND	0.450	ND	0.450	ND	0.440
Cadmium	mg/Kg	0.510	0.510	ND	0.550	ND	0.510	0.540	0.540	ND	0.540	ND	0.530
Chromium	mg/Kg	27.000	5.100	51.000	5.500	350.000	5.100	45.000	5.400	34.000	5.400	370.000	5.300
Cobalt	mg/Kg	9.800	0.850	12.000	0.910	29.000	0.850	14.000	0.890	7.500	0.890	21.000	0.880
Copper	mg/Kg	13.000	1.700	20.000	1.800	22.000	1.700	20.000	1.800	17.000	1.800	12.000	1.800
Lead	mg/Kg	6.000	4.200	17.000	4.500	15.000	4.300	15.000	4.500	10.000	4.500	ND	4.400
Molybdenum	mg/Kg	ND	0.850	ND	0.910	ND	0.850	ND	0.890	ND	0.890	ND	0.880
Nickel	mg/Kg	43.000	0.850	53.000	0.910	410.000	0.850	68.000	0.890	27.000	0.890	540.000	0.880
Selenium	mg/Kg	ND	4.200	ND	4.500	ND	4.300	ND	4.500	ND	4.500	ND	4.400
Silver	mg/Kg	ND	1.300	ND	1.400	ND	1.300	ND	1.300	ND	1.300	ND	1.300
Thallium	mg/Kg	ND	1.500	ND	1.600	13.000	1.500	2.100	1.600	2.000	1.600	6.300	1.600
Vanadium	mg/Kg	27.000	1.300	40.000	1.400	45.000	1.300	51.000	1.300	28.000	1.300	22.000	1.300
Zinc	mg/Kg	34.000	5.900	64.000	6.400	90.000	6.000	100.000	6.200	40.000	6.200	43.000	6.200
Methyl Mercury, (EPA 1630 Modified)													
Methyl Mercury	ng/g	Not Analyzed		Not Analyzed		0.225	0.070	Not Analyzed		Not Analyzed		Not Analyzed	
Soluable Metals, STLC													
Mercury	ug/L	ND	1.00	ND	1.00	ND	1.00	ND	1.00	ND	1.0	ND	1.0
Antimony	ug/L	ND	200.00	ND	200.00	ND	200.00	ND	200.00	ND	200.0	ND	200.0
Arsenic	ug/L	350.0	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Barium	ug/L	7600.0	200.0	5900.0	200.0	6100.0	200.0	6000.0	200.0	11000.0	200.0	7200.0	200.0
Beryllium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Cadmium	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	25.0	20.0
Chromium	ug/L	78.0	20.0	930.0	20.0	1800.0	20.0	610.0	20.0	73.0	20.0	230.0	20.0
Cobalt	ug/L	230.0	80.0	360.0	80.0	1300.0	80.0	340.0	80.0	540.0	80.0	190.0	80.0
Copper	ug/L	110.0	20.0	24.0	20.0	240.0	20.0	130.0	20.0	190.0	20.0	220.0	20.0
Lead	ug/L	ND	200.0	250.0	200.0	270.0	200.0	370.0	200.0	220.0	200.0	ND	200.0
Molybdenum	ug/L	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0
Nickel	ug/L	490.0	80.0	1100.0	80.0	6300.0	80.0	1300.0	80.0	450.0	80.0	950.0	80.0
Selenium	ug/L	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0	ND	200.0
Silver	ug/L	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Thallium	ug/L	ND	200.0	690.0	200.0	870.0	200.0	330.0	200.0	ND	200.0	ND	200.0
Vanadium	ug/L	210.0	80.0	970.0	80.0	650.0	80.0	350.0	80.0	330.0	80.0	140.0	80.0
Zinc	ug/L	1400.0	20.0	4000.0	20.0	4900.0	20.0	4000.0	20.0	870.0	20.0	1700.0	20.0
Pesticides (EPA 8081)													
Aldrin	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
alpha-BHC	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
beta-BHC	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
delta-BHC	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
gamma-BHC	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlordane (tech)	ug/Kg	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
4,4-DDD	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
4,4-DDE	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
4,4-DDT	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Dieldrin	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan I	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan II	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endosulfan sulfate	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin	ug/Kg	ND	2.0	ND	20.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Endrin aldehyde	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Endrin keytone	ug/Kg	ND	6.0	ND	60.0	ND	6.0	ND	6.0	ND	6.0	ND	6.0
Heptachlor	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Heptachlor epoxide	ug/Kg	ND	1.0	ND	10.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methoxychlor	ug/Kg	ND	20.0	ND	200.0	ND	20.0	ND	20.0	ND	20.0	ND	20.0
Toxaphene	ug/Kg	ND	80.0	ND	800.0	ND	80.0	ND	80.0	ND	80.0	ND	80.0

*Lab missed hold time - Sample not analyzed

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		Adobe01A (comp A)		BerryMil01 (comp ABC)		BerryMil02 (comp ABC)		BerryCrop01 (comp ABC)		BerryPied01 (comp AB)		Calabazas01 (comp ABCD)		Calabazas02 (comp ABCD)		Calabazas03 (comp ABCD)		Calabazas04 (comp ABCD)		Calabazas05 (comp ABCD)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
PCBs (8082)																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Organophosphorous Comp. (EPA 8141)																					
Azinphos-methyl	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Bolstar	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Chloropyrifos	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Coumaphos	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Demeton	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Diazanon	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Dichlorvos	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Disulfoton	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Ethion	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Ethoprop	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
EPN	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Fensulfothion	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Fenthion	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Malathion	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Merphos	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Mevinphos	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Monocrotophos	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Naled	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Parathion-ethyl	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Parathion-methyl	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Phorate	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Ronnel	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Stirophos	ug/Kg	Not Analyzed		ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
Sulfotep	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Trichloronate	ug/Kg	Not Analyzed		ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
PAHs (EPA 8310)																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	66.0	10	23	10	ND	10	ND	10	ND	10	40	10	170	10	30	10	19	10	47	10
Anthracene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	15	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	180.0	20	98	20	ND	20	ND	20	ND	20	110	20	300	20	83	20	54	20	150	20
Pyrene	ug/Kg	140.0	10	76	10	ND	10	ND	10	ND	10	110	10	260	10	73	10	47	10	130	10
Benzo(a)anthracene	ug/Kg	56.0	10	28	10	ND	10	ND	10	ND	10	29	10	71	10	22	10	12	10	37	10
Chrysene	ug/Kg	85.0	10	59	10	ND	10	ND	10	ND	10	63	10	110	10	53	10	36	10	74	10
Benzo(b)fluoranthene	ug/Kg	80.0	20	64	20	26	20	ND	20	ND	20	75	20	91	20	60	20	38	20	100	20
Benzo(k)fluoranthene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	46	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	ug/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	55	10	96	10	45	10	25	10	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	76.0	20	57	20	ND	20	ND	20	ND	20	76	20	84	20	49	20	24	20	70	20
Indeno(1,2,3-cd)pyrene	ug/Kg	90.0	20	ND	20	ND	20	ND	20	ND	20	49	20	62	20	51	20	40	20	ND	20
Moisture Content (EPA 160.3)																					
Moisture Content	%	42.0	0.10	27.0	0.10	9.7	0.10	4.2	0.10	2.9	0.10	87	0.10	83	0.10	89	0.10	92	0.10	76	0.10
TEH-Kerosene/Diesel (DHS-LUFT)																					
Kerosene C9-C18	mg/Kg	30	10	1.5	1.0	4.8	1.0	3.5	1.0	5.8	1.0	2.6	1.0	2.9	1.0	3.2	1.0	2.4	1.0	5.6	1.0
Diesel	mg/Kg	150.0	10	9.3	1.0	22.0	1.0	7.2	1.0	9.2	1.0	19.0	1.0	20.0	1.0	21.0	1.0	16.0	1.0	39.0	1.0

*Lab missed hold time - Sample not analyzed

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Analytical Data for Sediment Samples
Composite Samples

		Calabazas06 (comp ABCD)		**Calabazas07** (comp ABCD)		**Calabazas08** (comp AB)		**CaleraMil01** (comp A)		**CaleraEsc01** (comp A)		**Canoas01** (comp ABCD)		**Coyote01** (comp A)		**Guadalupe01** (comp ABCD)		**Guadalupe02** (comp ABCD)		**Guadalupe03** (comp AB)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
PCBs (8082)																					
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Organophosphorous Comp. (EPA 8141)																					
Azinphos-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Bolstar	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Chloropyrifos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Coumaphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Demeton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Diazanon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Dichlorvos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Disulfoton	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Ethion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Ethoprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
EPN	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Fensulfothion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Fenthion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Malathion	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Merphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Mevinphos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Monocrotophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Naled	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Parathion-ethyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Parathion-methyl	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Phorate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Ronnel	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Stirophos	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	40	Not Analyzed		ND	40	ND	40	ND	40	ND	40
Sulfotep	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Tokuthion (Prothiofos)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
Trichloronate	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		ND	20	Not Analyzed		ND	20	ND	20	ND	20	ND	20
PAHs (EPA 8310)																					
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	39	10	16	10	ND	10	ND	10	ND	10	130	10	ND	10	33	10	120	10	150	10
Anthracene	ug/Kg	10	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	30	10	ND	10
Flouranthene	ug/Kg	200	20	38	20	ND	20	ND	20	ND	20	330	20	ND	20	66	20	270	20	390	20
Pyrene	ug/Kg	160	10	39	10	ND	10	ND	10	ND	10	290	10	15	10	77	10	290	10	350	10
Benzo(a)anthracene	ug/Kg	74	10	16	10	ND	10	ND	10	ND	10	94	10	ND	10	26	10	120	10	93	10
Chrysene	ug/Kg	100	10	23	10	ND	10	ND	10	ND	10	150	10	ND	10	42	10	150	10	180	10
Benzo(b)fluoranthene	ug/Kg	110	20	ND	20	ND	20	ND	20	ND	20	170	20	ND	20	38	20	100	20	220	20
Benzo(k)fluoranthene	ug/Kg	52	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	18	10	49	10	91	10
Benzo(a)pyrene	ug/Kg	120	10	22	10	ND	10	ND	10	ND	10	150	10	12	10	45	10	130	10	190	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	100	20	ND	20	ND	20	ND	20	ND	20	200	20	ND	20	49	20	110	20	250	20
Indeno(1,2,3-cd)pyrene	ug/Kg	86	20	ND	20	ND	20	ND	20	ND	20	47	20	ND	20	52	20	120	20	260	20
Moisture Content (EPA 160.3)																					
Moisture Content	%	87	0.10	90	0.10	94	0.10	28	0.10	18	0.10	27	0.10	20	0.10	8.7	0.10	16	0.10	12	0.10
TEH-Kerosene/Diesel (DHS-LUFT)																					
Kerosene C9-C18	mg/Kg	1.5	1.0	ND	1.0	ND	1.0	1.6	1.0	2.2	1.0	31	4.0	1.1	1.0	5.7	1.0	4.5	1.0	9.3	1.0
Diesel	mg/Kg	11.0	1.0	6.0	1.0	6.2	1.0	14.0	1.0	4.9	1.0	150.0	4.0	5.6	1.0	15.0	1.0	21.0	1.0	47.0	1.0

*Lab missed hold time - Sample not analyzed

2001 Sediment Removal Project - Analytical Data for Sediment Samples

Composite Samples

		LosCoches01 (comp AB)		Matadero01 (comp ABCD)		Randol01 (comp A)		Ross01 (comp A)		Rucker01 (comp A)		Sierra01 (comp A)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
PCBs (8082)													
PCB-1016	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1221	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1232	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1242	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1248	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1254	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1260	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1262	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
PCB-1268	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Organophosphorous Comp. (EPA 8141)													
Azinphos-methyl	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Bolstar	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Chloropyrifos	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Coumaphos	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Demeton	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Diazanon	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Dichlorvos	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Disulfoton	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Ethion	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Ethoprop	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
EPN	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Fensulfothion	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Fenthion	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Malathion	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Merphos	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Mevinphos	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Monocrotophos	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Naled	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Parathion-ethyl	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Parathion-methyl	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Phorate	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Ronnel	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Stirophos	ug/Kg	ND	40	Not Analyzed		Not Analyzed		Not Analyzed		ND	40	ND	40
Sulfotep	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Tokuthion (Prothiofos)	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
Trichloronate	ug/Kg	ND	20	Not Analyzed		Not Analyzed		Not Analyzed		ND	20	ND	20
PAHs (EPA 8310)													
Naphthalene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Acenaphthylene	ug/Kg	ND	500	ND	500	ND	500	ND	500	ND	500	ND	500
Acenaphthene	ug/Kg	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Fluorene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Phenanthrene	ug/Kg	ND	10	310	10	ND	10	ND	10	ND	10	ND	10
Anthracene	ug/Kg	ND	10	32	10	ND	10	ND	10	ND	10	ND	10
Flouranthene	ug/Kg	ND	20	770	20	ND	20	ND	20	ND	20	ND	20
Pyrene	ug/Kg	ND	10	650	20	ND	10	ND	10	ND	10	ND	10
Benzo(a)anthracene	ug/Kg	ND	10	200	10	ND	10	ND	10	ND	10	ND	10
Chrysene	ug/Kg	ND	10	360	10	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	ug/Kg	ND	20	360	20	ND	20	ND	20	ND	20	ND	20
Benzo(k)fluoranthene	ug/Kg	ND	10	230	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	ug/Kg	ND	10	430	20	ND	10	19	10	ND	10	ND	10
Dibenz(ah)anthracene	ug/Kg	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
Benzo(ghi)perylene	ug/Kg	ND	20	270	20	ND	20	ND	20	ND	20	ND	20
Indeno(1,2,3-cd)pyrene	ug/Kg	ND	20	250	20	ND	20	ND	20	ND	20	ND	20
Moisture Content (EPA 160.3)													
Moisture Content	%	20	0.10	31	0.10	18	0.10	7.1	0.10	16	0.10	20	0.10
TEH-Kerosene/Diesel (DHS-LUFT)													
Kerosene C9-C18	mg/Kg	3.4	1.0	4.2	1.0	2.6	1.0	ND	1.0	1.1	1.0	1.1	1.0
Diesel	mg/Kg	10.0	1.0	37.0	1.0	11.0	1.0	3.6	1.0	2.7	1.0	5.5	1.0

*Lab missed hold time - Sample not analyzed

2001 Sediment Removal Project -
Analytical Data for Sediment Samples
Composite Samples

		Adobe01A (comp A)		BerryMil01 (comp ABC)		BerryMil02 (comp ABC)		BerryCrop01 (comp ABC)		BerryPied01 (comp AB)		Calabazas01 (comp ABCD)		Calabazas02 (comp ABCD)		Calabazas03 (comp ABCD)		Calabazas04 (comp ABCD)		Calabazas05 (comp ABCD)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)																					
Total Organic Carbon	mg/Kg	18000	200	7600	200	2300	200	ND	200	2000	200	13000	200	12000	200	10000	200	6800	200	10000	200
Chloride (EPA 325.2)																					
Chloride	mg/Kg	35.0	1.0	230.0	10	110.0	10	Not Analyzed		Not Analyzed		120	10	150	10	92	10	120	10	130	10
pH (EPA 9045C)																					
		7.70	0.200	7.93	0.200	8.98	0.200	8.70	0.200	8.08	0.200	8.10	0.200	8.10	0.200	8.15	0.200	8.12	0.200	7.80	0.200
Sulfide																					
	mg/Kg	64	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Ammonia (EPA 350.1)																					
	mg/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Chlorinated Herbicides (EPA 8151)																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)																					
Rodeo, Roundup	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
AMPA		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Gallery		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Surflan		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	

*Lab missed hold time - Sample not analyzed

2001 Sediment Removal Project -
Analytical Data for Sediment Samples
Composite Samples

		Calabazas06 (comp ABCD)		**Calabazas07** (comp ABCD)		**Calabazas08** (comp AB)		**CaleraMil01** (comp A)		**CaleraEsc01** (comp A)		**Canoas01** (comp ABCD)		**Coyote01** (comp A)		**Guadalupe01** (comp ABCD)		**Guadalupe02** (comp ABCD)		**Guadalupe03** (comp AB)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)																					
Total Organic Carbon	mg/Kg	2200	200	2500	200	2500	200	*		13000	200	22000	200	12000	200	9100	200	9500	200	23000	200
Chloride (EPA 325.2)																					
Chloride	mg/Kg	200	10	130	10	79	10	Not Analyzed		Not Analyzed		Not Analyzed		41	1.0	180	10	170	10	7.1	1.0
pH (EPA 9045C)																					
		8.51	0.200	9.21	0.200	9.34	0.200	8.18	0.200	8.38	0.200	7.92	0.200	8.38	0.200	8.17	0.200	7.98	0.200	7.90	0.200
Sulfide																					
	mg/Kg	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Ammonia (EPA 350.1)																					
	mg/Kg	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	21	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Chlorinated Herbicides (EPA 8151)																					
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)																					
Rodeo, Roundup	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
AMPA		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Gallery		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Surflan		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	

*Lab missed hold time - Sample not analyzed

2001 Sedimen noval Project -
Analytical Data for Sediment Samples
Composite Samples

		LosCoches01		Matadero01		Randol01		Ross01		Rucker01		Sierra01	
		(comp AB)		(comp ABCD)		(comp A)		(comp A)		(comp A)		(comp A)	
Analyte	**units**	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.	results	det. lim.
Total Organic Carbon (EPA 415.2)													
Total Organic Carbon	mg/Kg	2300	200	13000	200	9300	200	1600	200	4000	200	2000	200
Chloride (EPA 325.2)													
Chloride	mg/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
pH (EPA 9045C)													
		8.08	0.200	7.63	0.200	8.17	0.200	8.46	0.200	7.93	0.200	8.45	0.200
Sulfide													
	mg/Kg	ND	10	ND	10	160	10	ND	10	ND	10	ND	10
Ammonia (EPA 350.1)													
	mg/Kg	ND	2.0	10	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Chlorinated Herbicides (EPA 8151)													
2,4-D	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4-DB	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-T	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
2,4,5-TP (Silvex)	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dalapon	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dicamba	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dichlorprop	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Dinoseb	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPA	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
MCPP	ug/Kg	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Herbicides (Various)													
Rodeo, Roundup	ug/g	Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
AMPA		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Gallery		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Surflan		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Telar		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	
Pendulum		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed		Not Analyzed	

*Lab missed hold time - Sample not analyzed

Toxicity Evaluation of Estuarine/Marine Sediments

(Samples Collected June 7-12, 2001)

Prepared For:

Sequoia Analytical
885 Jarvis Dr.
Morgan Hill, CA 95037

Prepared By:

Pacific EcoRisk
835 Arnold Dr., Suite 104
Martinez, CA 94553

July, 2001

3.0 RESULTS

3.1 BULK SEDIMENT TOXICITY TO *Eohaustorius estuarius*

The percent survival data for the amphipod *Eohaustorius estuarius* exposed to the estuarine/marine sediments for 10 days are summarized below in Table 2. Briefly, there was 96% amphipod survival at the "Home" Control treatment, indicating an acceptable survival response by the test organisms. All of the samples, with the exception of MKF0118-02, MKF0118-03, MKF0274-06, MKF0287-02 exhibited reductions in the mean % amphipod survival that were statistically less than the Control treatment; however, only site sediments MKF0191-03 and MKF0191-04 were >20% less than the "home" Control sediment with respect to survival. Copies of the test data sheets and the summaries of statistical analyses are attached as Appendix B.

Table 2. Effects of Sequoia Analytical sediments on the survival of *Eohaustorius estuarius*

	Sample Station I.D.	% Survival						
		Rep A	Rep B	Rep C	Rep D	Rep E	Mean	
	"Home" Control	100	100	90	100	90	96	
01	MKF0118-01	75	75	85	85	85	81*	Adobe 01
D01	MKF0118-02	90	100	95	85	95	93	Dup 01
CC01	MKF0118-03	90	100	90	85	90	91	CCO.
01	MKF0191-01	85	70	85	90	85	83*	Berry Mil 01
02	MKF0191-02	100	85	80	90	80	87*	02
CC01	MKF0191-03	75	80	65	70	75	73*	CC01
CC02	MKF0191-04	75	70	65	65	60	67*	CC02
01	MKF0274-01	60	85	90	85	75	79*	Guadalupe 01
02	MKF0274-02	95	85	70	75	70	79*	02
03	MKF0274-03	80	75	85	75	65	76*	03
CC01	MKF0274-04	85	70	75	80	80	78*	CC01
CC02	MKF0274-05	75	85	90	80	80	82*	CC02
CC03	MKF0274-06	95	80	80	90	95	88	CC03
D05	MKF0274-10	70	85	85	70	75	77*	Dup05
01	MKF0287-01	85	90	80	90	80	85*	coyote 01
CC01	MKF0287-02	75	100	90	85	85	87	CC01

* - Statistically significantly less than the Control at $p < 0.05$.

3.1.2 Amphipod Reference Toxicant Test Results

The results of the cadmium reference toxicant toxicity test are summarized in Table 3. Briefly, there was 100% survival at the Control treatment, and not less than 90% survival up through the 1.5 mg/L cadmium treatment. Amphipod survival was reduced to 50% at the 3 mg/L treatment, which was significantly less than the Control. The resulting EC50 value was 3.8 mg/L.

Test data & the summary of statistical analyses for this test are attached as Appendix C.

Table 3. Reference Toxicant Testing: Effects of Cadmium on Survival of *Eohaustorius estuarius*

Nominal Cadmium Concentrations (mg/L)	% Survival of Amphipods		
	Rep A	Rep B	Mean
Control	100	100	100
0.75	100	90	95
1.5	90	90	90
3	50	50	50 *
6	60	40	50 *
9	10	0	5*
EC50 = 3.8 mg/L cadmium			

* - Significantly less than the Control at $p < 0.05$.

- The current reference toxicant test EC50 of 3.8 mg/L is well within the "acceptability" range of our in house reference toxiciant test data base ("mean ± 2 S.D.") of 1.4-8.0 mg/L, indicating that these amphipods were responding to toxicant stress in a consistent and typical fashion.

4.0 SUMMARY

The results of these tests indicated that some of the sediments may be significantly toxic to benthic organisms.

However, it is recognized that even optimal "ambient" sediments in the San Francisco Basin may exhibit some degree of impairment relative to truly pristine locations (such as where the "Home" Control sediments were collected). As a result, it is being recommended that comparison of amphipod toxicity test results for sediments collected from the San Francisco Bay Basin be compared to a "reference envelope" representing the characteristic response that might be expected from San Francisco Bay reference ambient sediments (CA SWRCB 1998). In addition, for dredge materials testing under the U.S. Army Corp of Engineers guidelines, it is recommended that for a sample to be considered toxic, the test sediment must be both statistically significantly different and 20% greater with respect to amphipod mortality relative to the reference sediment (or Control sediment in this case).

An alternative recommended approach is the use of the "detectable difference" approach (Thursby et al. 1997; CA SWRCB 1998). The detectable difference is the difference from the Control that a given protocol is capable of detecting as statistically significant in 90% of samples tested. The Bay Protection and Toxic Cleanup Program has established a 90th percentile Minimum Significant Difference (MSD) of 75% of the Control for the *Eohaustorius estuarius* sediment toxicity test. Using this approach, it would be concluded only site sediment MKF0191-04 would be considered significantly toxic.

4.1 QA/QC SUMMARY

Test Conditions - All test conditions (pH, D.O., temperature, etc.) were within acceptable limits for the test organisms. All such analyses were performed according the laboratory Standard Operating Procedures.

Negative Control - The survival response for the test organisms at the "Home" Control treatment was within acceptable limits.

Positive Control - The results of the reference toxicant tests that was performed concurrently with the sediment tests was consistent with the historical database of tests performed previously by this laboratory, indicating that these test organisms were responding to toxic stress in a typical fashion.

5. LITERATURE CITED

CA SWRCB (1998) Evaluation and Use of Sediment Reference Sites and Toxicity Tests in San Francisco Bay. Final Report. CA State Water Resources Control Board, Sacramento, CA.

Knezovich JP, Steichen DJ, Jelinski J, Anderson SL (1996) Sulfide tolerance of four species used to evaluate sediment and porewater toxicity. Bulletin Environmental Contamination Toxicology 57:450-457.

Thursby GB, Heltshe J, Scott KJ (1997) Revised approach to toxicity test acceptability criteria using a statistical performance assessment. Env Toxicol Chem 16:1322-1329.

US EPA (1994) "Methods for Assessing the Toxicity of Sediment-Associated Contaminants with Estuarine and Marine Amphipods", EPA-600/R-94/025. U.S. EPA, Env. Research Laboratory, Narragansett,

Toxicity Evaluation of Estuarine/Marine Sediments

(Samples Collected June 3, 2001)

Prepared For:

Sequoia Analytical
885 Jarvis Dr.
Morgan Hill, CA 95037

Prepared By:

Pacific EcoRisk
835 Arnold Dr., Suite 104
Martinez, CA 94553

July 2001

3.0 RESULTS

3.1 BULK SEDIMENT TOXICITY TO *Eohaustorius estuarius*

The percent survival data for the amphipod *Eohaustorius estuarius* exposed to the estuarine/marine sediments for 10 days are summarized below in Table 2. Briefly, there was 100% amphipod survival at the "Home" Control treatment, indicating an acceptable survival response by the test organisms. All of the samples, with the exception of MKF0033-24, exhibited reductions in the mean % amphipod survival that were statistically less than the Control treatment; however, none of the samples were >20% different from the "home" Control sediment with respect to survival.

Copies of the test data sheets and the summaries of statistical analyses are attached as Appendix B.

Table 2. Effects of Sequoia Analytical sediments on the survival of *Eohaustorius estuarius*

	Sample Station I.D.	% Survival						
		Rep A	Rep B	Rep C	Rep D	Rep E	Mean	
	"Home" Control	100	100	100	100	100	100	01Calabazas
03	MKF0033-13	85	95	95	85	95	91*	03
C2	MKF0033-14	**	85	85	75	95	85*	02
[illegible]	MKF0033-19	90	85	95	60	85	83*	01
C03	MKF0033-21	75	90	90	90	95	88*	CC03
[illegible]	MKF0033-22	75	100	80	80	90	85*	CC01
02	MKF0033-24	85	90	95	100	100	94	CC02
04	MKF0033-26	85	85	100	90	90	90*	CC04

* - Statistically significantly less than the Control at $p < 0.05$.

** - Considered and outlier and is not used in statistical analysis.

3.1.2 Amphipod Reference Toxicant Test Results

The results of the cadmium reference toxicant toxicity test are summarized in Table 3. Briefly, there was 100% survival at the Control treatment, and not less than 90% survival up through the 1.5 mg/L cadmium treatment. Amphipod survival was reduced to 55% at the 3 mg/L treatment, which was significantly less than the Control. The resulting EC50 value was 4.2 mg/L.

Test data & the summary of statistical analyses for this test are attached as Appendix C.

Table 3. Reference Toxicant Testing: Effects of Cadmium on Survival of *Eohaustorius estuarius*

Nominal Cadmium Concentrations (mg/L)	% Survival of Amphipods		
	Rep A	Rep B	Mean
Control	100	100	100
0.75	100	100	100
1.5	100	80	90
3	60	50	55 *
6	20	20	20 *
9	50	20	35 *
EC50 = 4.2 mg/L cadmium			

* - Significantly less than the Control at $p < 0.05$.

The current reference toxicant test EC50 of 4.2 mg/L is well within the "acceptability" range of our in house reference toxiciant test data base ("mean ± 2 S.D.") of 1.4-8.0 mg/L, indicating that these amphipods were responding to toxicant stress in a consistent and typical fashion.

4.0 SUMMARY

The results of these tests indicated that some of the sediments may be significantly toxic to benthic organisms.

However, it is recognized that even optimal "ambient" sediments in the San Francisco Basin may exhibit some degree of impairment relative to truly pristine locations (such as where the "Home" Control sediments were collected). As a result, it is being recommended that comparison of amphipod toxicity test results for sediments collected from the San Francisco Bay Basin be compared to a "reference envelope" representing the characteristic response that might be expected from San Francisco Bay reference ambient sediments (CA SWRCB 1998). In addition, for dredge materials testing under the U.S. Army Corp of Engineers guidelines, it is recommended that for a sample to be considered toxic, the test sediment must be both statistically significantly different and 20% greater with respect to amphipod mortality relative to the reference sediment (or Control sediment in this case).

An alternative recommended approach is the use of the "detectable difference" approach (Thursby et al. 1997; CA SWRCB 1998). The detectable difference is the difference from the Control that a given protocol is capable of detecting as statistically significant in 90% of samples tested. The Bay Protection and Toxic Cleanup Program has established a 90th percentile Minimum Significant Difference (MSD) of 75% of the Control for the *Eohaustorius estuarius* sediment toxicity test. Using this approach, it would be concluded that none of the sediments are significantly toxic.

4.1 QA/QC SUMMARY

Test Conditions - All test conditions (pH, D.O., temperature, etc.) were within acceptable limits for the test organisms. All such analyses were performed according the laboratory Standard Operating Procedures.

Negative Control - The survival response for the test organisms at the "Home" Control treatment was within acceptable limits.

Positive Control - The results of the reference toxicant tests that was performed concurrently with the sediment tests was consistent with the historical database of tests performed previously by this laboratory, indicating that these test organisms were responding to toxic stress in a typical fashion.

APPENDIX D

Test Report - Sequoia Analyttical - Morgan Hill

Polarized Light Microscopy Analysis Results

Project AOC106177

		Asbestos						Nonasbestos						
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
1741088CPL	MKF0118-01	-	-	-	-	-	-	<1 %	-	<1 %	-	-	99+ %	6/12/01
Brown soil	01 Adobe 01					**NFM:** Qtz, Carb, Binder, Opaq, Misc. Part.								SSY
													Homogeneous	
1741089CPL	MKF0118-02		-	-	-	-	-	<1 %	-	<1 %	-	-	99+ %	6/12/01
Brown soil	01 Duplicate 01					**NFM:** Qtz, Clay, Carb, Binder, Opaq, Fine Grains, Misc. Part.								SSY
													Homogeneous	
1741090CPL	MKF0118-03	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/12/01
Brown soil	01 Adobe CC01					**NFM:** Qtz, Clay, Carb, 'Binder, Opaq, Fine Grains, Misc. Part.								SSY
													Homogeneous	

Samples received on: Tuesday, June 12, 2001

Authorized Signature

Adam Fink, Geologist

Date Monday, June 18, 2001

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
San Leandro, CA 94577

Phone (510) 567-0480
Fax (510) 567-0488

Test Report - Sequoia Analytical - Morgan Hill

Polarized Light Microscopy Analysis Results

Project AOC106259

Sample Number / Sample Appearance	Client Sample Number	Asbestos						Nonasbestos						
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
1741179CPL Brown soil	MKF0268-01 01 Berry Pied 01	-	-	-	-	-	-	<1 %	-	-	-	-	99+ % **NFM:** Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains Homogeneous	6/20/01 ACF
1741180CPL Brown soil	MKF0268-02 01 Berry Pied CC01			-	-	-	-	<1 %	-	-	-	-	99+ % **NFM:** Qtz,, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grain Homogeneous	6/20/01 ACF
1741181CPL Brown soil	MKF0268-04 01 Duplicate 02	-	-	-	-	-	-	<1 %	-	-	-	-	99+ % **NFM:** Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains Homogeneous	6/20/01 ACF
1741182CPL Brown soil	MKF0268-05 01 Berry Crop 01	-	-	-	-	-	-	<1 %	-	-	-	-	99+ % **NFM:** Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains Homogeneous	6/20/01 ACF
1741183CPL Brown soil	MKF0268-06 01 Berry Crop CC01	-	-	-	-	-	-	<1 %	-	-	-	-	99+ % **NFM:** Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains Homogeneous	6/20/01 ACF

Samples received on: Friday, June 15, 2001

Authorized Signature
Adam Fink, Geologist

Date Thursday, June 21, 2001

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Test Report - Sequoia Analytical - Morgan Hill

Polarized Light Microscopy Analysis Results

Project AOC106266

Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
		Asbestos						Nonasbestos						
1741154CPL	MKF0191-01	-	-	-	-	-	-	-	-	-	-	-	100 %	6/20/01
Tan soil	01 Berry Mll 01												NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains Homogeneous	ACF
1741155CPL	MKF0191-02	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/20/01
Tan soil	01 Berry Mll 02												NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains Homogeneous	ACF
1741156CPL	MKF0191-04	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/20/01
Tan soil	01 Berry Mil CC02												NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains Homogeneous	ACF

Samples received on: Friday, June 15, 2001

Authorized Signature
Adam Fink, Geologist

Date Thursday, June 21, 2001

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Test Report - Sequoia Analytical - Morgan Hill

Polarized Light Microscopy Analysis Results

Project AOC106101

Sample Number / Sample Appearance	Client Sample Number	Asbestos Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Nonasbestos Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
1740457CPL	MKF0033-01	-	-	-	-	-	-	-	-	-	-	-	100 %	6/7/01
Brown soil	01 Calabazas 06					**NFM:** Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.								SSY
													Homogeneous	
1740458CPL	MKF0033-04	-	-	-	-	-	-	-	-	-	-	-	100 %	6/7/01
Brown soil	01 Calabazas 07					**NFM:** Qtz, Binder, Opaq, Fine Grains, Misc. Part.								SSY
													Homogeneous	
1740459CPL	MKF0033-05	-	-	-	-	-	-	-	-	-	-	-	100 %	6/7/01
Brown soil	01 Calabazas 08					**NFM:** Qtz, Binder, Opaq, Fine Grains, Misc. Part.								SSY
													Homogeneous	
1740460CPL	MKF0033-08	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/7/01
Brown soil	01 Calabazas 05					**NFM:** Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.								SSY
													Homogeneous	
1740461CPL	MKF0033-12	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/7/01
Brown soil	01 Calabazas 04					**NFM:** Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.								SSY
													Homogeneous	
1740462CPL	MKF0033-13	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/7/01
Brown soil	01 Calabazas 03					**NFM:** Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.								SSY
													Homogeneous	

Samples received on: Thursday, June 7, 2001

Authorized Signature

Stephen S. Yata, Geologist

Date Monday, June 11, 2001

Test Report - Sequoia Analytical - Morgan Hill

Polarized Light Microscopy Analysis Results

Project AOC106101

		Asbestos						Nonasbestos						
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
1740463CPL	MKF0033-14	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/7/01
Brown soil	01 Calabazas 02					NFM: Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.								SSY
													Homogeneous	
1740464CPL	MKF0033-17	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/7/01
Brown soil	01 Calabazas CC03					NFM: Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.								SSY
													Homogeneous	
1740465CPL	MKF0033-19	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/7/01
Brown soil	01 Calabazas 01					NFM: Qtz, Carb, Binder, Opaq, Fine Grains, Misc. Part.								SSY
													Homogeneous	

Samples received on: Thursday, June 7, 2001

Authorized Signature

Date

Stephen S. Yata, Geologist
Monday, June 11, 2001

Test Report - Sequoia Analytical - Morgan Hill

Polarized Light Microscopy Analysis Results

Project AOC106174

		Asbestos						Nonasbestos						
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
1741084CPL	MKF0202-01	-	-	-	-	-	-	-	-	-	-	-	100 %	6/12/01
Brown soil	01Calera_Esc.01					**NFM:** Qtz, Clay, Carb, Binder, Opaq, Fine Grains, Misc. Part.								SSY Homogeneous
1741085CPL	MKF0202-02	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/12/01
Brown soil	01 Calera_Esc CC01					**NFM:** Qtz, Clay, Carb, Binder, Opaq, Fine Grains, Misc. Part.								SSY Homogeneous

Samples received on: Tuesday, June 12, 2001

Authorized Signature

Adam Fink, Geologist

Date Monday, June 18, 2001

Test Report - Sequoia Analytical - Morgan Hill

Polarized Light Microscopy Analysis Results

Project AOC106175

		Asbestos						Nonasbestos						
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
1741086CPL	MKF0199-01	-	-	-	-	-	-	-	-	-	-	-	100 %	6/12/01
Brown soil	01 CaleraMil01					**NFM:** Qtz, Clay, Carb, Binder, Opaq, Fine Grains, Misc. Part.								SSY
													Homogeneous	
1741087CPL	MKF0199-02	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/12/01
Brown soil	01 Calera MilCC01					**NFM:** Qtz, Clay, Carb, Binder, Opaq, Fine Grains, Misc. Part.								SSY
													Homogeneous	

Samples received on: Tuesday, June 12, 2001

Authorized Signature

Stephen S. Yata, Geologist

Date Monday, June 18, 2001

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Test Report - Sequoia Analytical - Morgan Hill

Polarized Light Microscopy Analysis Results

Project AOC106265

		Asbestos						Nonasbestos						
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
1741157CPL	MKF0272-01	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/20/01
Brown soil	01 Canoas 01												**NFM:** Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains Homogeneous	ACF
1741158CPL	MKF0272-02	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/20/01
Brown soil	01 CanoasCC01												**NFM:** Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains Homogeneous	ACF

Samples received on: Friday, June 15, 2001

Authorized Signature ____________________
Adam Fink, Geologist

Date Thursday, June 21, 2001

Test Report - Sequoia Analytical - Morgan Hill

Polarized Light Microscopy Analysis Results

Project AOC106264

		Asbestos						Nonasbestos						
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
1741159CPL	MKF0287-01	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/20/01
Black soil	01 Coyote 01					**NFM:** Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains								ACF
													Homogeneous	
1741160CPL	MKF0287-02	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/20/01
Black soil	01 Coyote CC01					**NFM:** Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains								ACF
													Homogeneous	

Samples received on: Friday, June 15, 2001

Authorized Signature

Adam Fink, Geologist

Date Thursday, June 21, 2001

Test Report - Sequoia Analytical - Morgan Hill

Polarized Light Microscopy Analysis Results

Project AOC106336

Sample Number / Sample Appearance	Client Sample Number	Asbestos Chrysotile	Asbestos Amosite	Asbestos Crocidolite	Asbestos Anthophyllite	Asbestos Tremolite	Asbestos Actinolite	Nonasbestos Cellulose	Nonasbestos Mineral Wool	Nonasbestos Fibrous Glass	Nonasbestos Synthetic Fibers	Nonasbestos Other Fibers	NonFibrous Material	Run Date Analyst
1741387CPL	MKF0299-01	-	-	-	-	-	-	3 %	-	-	-	-	97 %	6/26/01
Brown soil	01 Flint CC01													ACF

NFM: Qtz, Carb, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains, Misc. Part.

Homogeneous

Samples received on: Wednesday, June 20, 2001

Authorized Signature

Adam Fink, Geologist

Date Wednesday, June 27, 2001

Test Report - Sequoia Analytical - Morgan Hill

Polarized Light Microscopy Analysis Results

Project AOC106258

Sample Number / Sample Appearance	Client Sample Number	Asbestos						Nonasbestos						
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
1741184CPL Brown soil	MKF0274-01 01Guadalupe 01	-	-	-	-	-	-	5 %	-	-	-	-	95 %	6/20/01 ACF
						NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains							Homogeneous	
1741185CPL Brown soil	MKF0274-02 01Guadalupe02	-	-	-	-	-	-	-	-	-	-	-	100 %	6/20/01 ACF
						NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Opaq, Mica, Fine Grains, Misc. P							Homogeneous	
1741186CPL Brown soil	MKF0274-03 01Guadalupe03	-	-	-	-	-	-	2 %	-	-	-	-	98 %	6/20/01 ACF
						NFM: Qtz, Clay, Carb, Binder, Opaq, Mica, Fine Grains, Misc. Part.							Homogeneous	
1741187CPL Brown soil	MKF0274-06 01Guadalupe CC03	-	-	-	-	-	-	5 %	-	-	-	-	95 %	6/20/01 ACF
						NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains							Homogeneous	
1741188CPL Brown soil	MKF0274-10 01 Duplicate05	-	-	-	-	-	-	5 %	-	-	-	-	95 %	6/20/01 ACF
						NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains							Homogeneous	

Samples received on: Friday, June 15, 2001

Authorized Signature
Adam Fink, Geologist

Date Thursday, June 21, 2001

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Test Report - Sequoia Analytical - Morgan Hill

Polarized Light Microscopy Analysis Results

Project AOC106267

		Asbestos						Nonasbestos						
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
1741152CPL Brown soil	MKF0297-01 01 ROSS01	-	-	-	-	-	-	-	-	-	-	-	100 %	6/20/01 ACF
						NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains							Homogeneous	
1741153CPL Brown soil	MKF0297-02 01 ROSSCC01	-	-	-	-	-	-	-	-	-	-	-	100 %	6/20/01 ACF
						NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Opaq, Mica, Fine Grains, Misc. P							Homogeneous	

Samples received on: Friday, June 15, 2001

Authorized Signature

Adam Fink, Geologist

Date Thursday, June 21, 2001

Test Report - Sequoia Analytical - Morgan Hill

Polarized Light Microscopy Analysis Results

Project AOC106262

		Asbestos						Nonasbestos						
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
1741177CPL	MKF0257-01	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/20/01
Brown soil	01 LosCoches 01					**NFM:** Qtz, Clay, Carb, Binder, Hbl, F-Spar, Opaq, Mica, Fine Grains, Misc. P								ACF
													Homogeneous	
1741178CPL	MKF0257-02	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/20/01
Brown soil	01 Los Coches CC01 Sample taken from wrong location					**NFM:** Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains								ACF
													Homogeneous	

Samples received on: Friday, June 15, 2001

Authorized Signature

Adam Fink, Geologist

Date Thursday, June 21, 2001

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Test Report - Sequoia Analytical - Morgan Hill
Polarized Light Microscopy Analysis Results
Project AOC106335

Sample Number / Sample Appearance	Client Sample Number	Asbestos						Nonasbestos						Run Date Analyst
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	
1741388CPL	MKF0352-01	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/26/01
Brown soil	01 Los Coches CC02					**NFM:** Carb, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains, Misc. Part.								ACF
													Homogeneous	

Samples received on: Wednesday, June 20, 2001

Authorized Signature

Adam Fink, Geologist

Date Wednesday, June 27, 2001

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Test Report - Sequoia Analytical - Morgan Hill

Polarized Light Microscopy Analysis Results

Project AOC106176

		Asbestos						Nonasbestos						
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
1741081CPL	MKF0089-01	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/12/01
Brown soil	01 matadero 01					**NFM:** Qtz, Clay, Carb, Binder, Opaq, Fine Grains, Misc. Part.							Homogeneous	SSY
1741082CPL	MKF0089-02	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/12/01
Brown soil	01 matadero CC01					**NFM:** Qtz, Clay, Carb, Binder, Opaq, Fine Grains, Misc. Part.							Homogeneous	SSY
1741083CPL	MKF0089-04	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/12/01
Brown soil	01 Duplicate 03					**NFM:** Qtz, Clay, Carb, Binder, Opaq, Fine Grains, Misc. Part.							Homogeneous	SSY

Samples received on: Tuesday, June 12, 2001

Authorized Signature ______________________

Adam Fink, Geologist

Date Monday, June 18, 2001

Test Report - Sequoia Analytical - Morgan Hill

Polarized Light Microscopy Analysis Results

Project AOC106263

Sample Number / Sample Appearance	Client Sample Number	Asbestos						Nonasbestos						
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
1741175CPL	MKF0273-01	-	-	-	-	-	-	4 %	-	-	-	-	96 %	6/20/01
Black soil	01 Randol 01	**NFM:** Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains Homogeneous												ACF
1741176CPL	MKF0273-02	-	-	-	-	-	-	4 %	-	-	-	-	96 %	6/20/01
Black soil	01 Randol CC01	**NFM:** Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains Homogeneous												ACF

Samples received on: Friday, June 15, 2001

Authorized Signature ____________________

Adam Fink, Geologist

Date Thursday, June 21, 2001

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Test Report - Sequoia Analytical - Morgan Hill

Polarized Light Microscopy Analysis Results

Project AOC106252

Sample Number / Sample Appearance	Client Sample Number	Asbestos: Chrysotile	Asbestos: Amosite	Asbestos: Crocidolite	Asbestos: Anthophyllite	Asbestos: Tremolite	Asbestos: Actinolite	Nonasbestos: Cellulose	Nonasbestos: Mineral Wool	Nonasbestos: Fibrous Glass	Nonasbestos: Synthetic Fibers	Nonasbestos: Other Fibers	Nonasbestos: NonFibrous Material	Run Date Analyst
1741150CPL	MKF0271-01	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	6/20/01
Brown soil	01 Rucker 01							NFM: Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains Homogeneous						ACF
1741151CPL	MKF0271-02 01 RuckerCC01													

Sample Location Sample Not Analyzed - Container Broken

Samples received on: Friday, June 15, 2001

Authorized Signature

Adam Fink, Geologist

Date Thursday, June 21, 2001

Test Report - Sequoia Analytical - Morgan Hill
Polarized Light Microscopy Analysis Results
Project AOC106253

Sample Number / Sample Appearance	Client Sample Number	Asbestos						Nonasbestos						
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Run Date Analyst
1741147CPL	MKF0298-01	-	-	-	-	-	-	-	-	-	-	-	100 %	6/20/01
grey soil	01Sierra01					**NFM:** Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains							Homogeneous	ACF
1741148CPL	MKF0298-02	-	-	-	-	-	-	-	-	-	-	-	100 %	6/20/01
grey soil	01Sierra-CC01					**NFM:** Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains							Homogeneous	ACF
1741149CPL	MKF0298-04	-	-	-	-	-	-	-	-	-	-	-	100 %	6/20/01
grey soil	01 Duplicate06					**NFM:** Qtz, Clay, Carb, Binder, Hbl, F-Spar, Org Part, Opaq, Mica, Fine Grains							Homogeneous	ACF

Samples received on: Friday, June 15, 2001

Authorized Signature ____________________
Adam Fink, Geologist

Date Thursday, June 21, 2001

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